

# NAVSEA OP 3514 (PMS/SMS) VOLUME 2

SEE PART 1 OF THIS VOLUME  
FOR COMPLETE FRONT MATTER

PART 2A  
FIRST REVISION

## DIGITAL COMPUTER MK 152 SERIES

TROUBLE ISOLATION

DIAGNOSTIC PROGRAM



THIS PUBLICATION SUPERSEDES OP 3514 (PMS/SMS)  
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SEGNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
000000	DIAG			
000001	DIAG	ALLDC*NSWSES*OCT 75		
000002	PTCHAN	0*		
000003	MTCHAN	13*		
000004	BUFF	000660		
000005	CKWORD	000666		
000006	WORD	000667		
000007	DOUT	000670		
000010	CONTBASI	0700		
000011	END1	4350		
000012	AFLT	4361		
000013	AIMAT	5000		
000014	RUNENT	5247		
000015	RESTART	005600		
000016	ZPAC	005777		
000017	IOTAPTCH	017400		
000020	MEDIPTCH	027400		
000021	CONTPTCH	007400		
000022	MEDIA	022000		
000023	BEGIN	07700		
000024	TOTA	010000		
000025	INK4	017500		
000026	ADR	0		
000027	CHTBL	0*0		
000030	XX	0		
000031	KH	0000		
000032	KL	0000		
000033	SPECIA	020000		
000034	DUALMODE	021200		

CONTR\*NSWSES\*1 OCT 75

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

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SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
000035		PR0G*NSWSES*PGM0249 NSWSES OCT. 75		
000036	CONTBASI	SIL*00 SIL	000706	5034 00
000037		STOP*10 PR0G STP 3 MEANS GOOD LOAD	000707	5056 10
000040		NO-OP	000710	5047 00
000041		REMARK*TO FAULT AND SKIP STOP TEST		
000042		JP*FALCON+3 BY PASS	000711	34 1003
000043		NO-OP	000712	5047 00
000044		CL*STAHL CL CONTENTS	000713	40 4603
000045		ENTAL*END1 AL EQ 505640	000714	12 4350
000046		STRAL*0001	000715	44 0001
000047		STRAL*0002	000716	44 0002
000050		STRAL*0004	000717	44 0004
000051		STRAL*0010	000720	44 0010
000052		STRAL*011	000721	44 0011
000053		STRAL*012	000722	44 0012
000054		STRAL*013	000723	44 0013
000055		STRAL*014	000724	44 0014
000056		STRAL*015	000725	44 0015
000057		STRAL*016	000726	44 0016
000060		STRAL*0017	000727	44 0017
000061		ENTAL*COMBACK AL EQ 34CHEZ-3	000730	12 4635
000062		STRAL*0000 STORE JP IN FLT ENT	000731	44 0000
000063		ENTAL*WEEDOUT2 AL EQ 34CHEZ+1	000732	12 4636
000064		STRAL*CHEZ	000733	44 0750
000065		ENTAL*WEEDOUT3 AL EQ 34CHEZ2	000734	12 4637
000066		STRAL*CHEZ1	000735	44 0765
000067		000000 FORCE FAULT=CHK TRANS	000736	000000
000070		ENTAL*ZEROUNE FAULT 00 BAD	000737	12 4646
000071		STRAL*STAHL	000740	44 4603
000072		ENTAL*WEEDOUT AL EQ 34CHEZ+6	000741	12 4644
000073		STRAL*CHEZ	000742	44 0750

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 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	PAGE	0003	ADDRESS	INSTRUCT
000074		ENTAL*WEEDOUT4			000743	12 4640
000075		STRAL*CHEZ1			000744	44 0765
000076		ENTAL*COMBACK1			000745	12 4641
000077		STRAL*0000			000746	44 0000
000100		010000			000747	010000
000101	CHEZ	000000			000750	000000
000102		ENTAL*ZERODEUX			000751	12 4453
000103		STRAL*STAHL			000752	44 4603
000104		ENTAL*WEEDOUT5			000753	12 4642
000105		STRAL*CHEZ1			000754	44 0765
000106		JP*CHEZ1-3			000755	34 0762
000107		ENTAL*ZEROTROIS			000756	12 4602
000110		STRAL*STAHL			000757	44 4603
000111		ENTAL*WEEDOUT1			000760	12 4643
000112		STRAL*CHEZ1			000761	44 0765
000113		ENTAL*COMBACK2			000762	12 4645
000114		STRAL*0000			000763	44 0000
000115		777777			000764	777777
000116	CHEZ1	000000			000765	000000
000117		ENTAL*ZEROCING			000766	12 4420
000120		STRAL*STAHL			000767	44 4603
000121		JP*SOFINDS			000770	34 0776
000122		ENTAL*ZEROSIX			000771	12 4647
000123		STRAL*STAHL			000772	44 4603
000124		JP*SOFINDS			000773	34 0776
000125		RJP*FLTISOL			000774	76 1010
000126		ENTAL*STAHL			000775	12 4603
000127	SOFINDS	STOP*40			000776	5056 40
000130	CHEZ2	ENTAL*STAHL			000777	12 4603
000131	FALCON	JP*FALCON			001000	34 1000
000132	*	CHK FAULT=AL SHOULD BE 000000-				

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NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
000133	*	AND FAULT LITE ON-IF NOT-ERROR		
000134	*	TO CONTINUE TES-DEPRESS MC		
000135	*	SWITCH TO REMOVE FAULT LITE-NEXT		
000136	*	PUT DISC ADV P SWITCH IN UP POS-		
000137	*	INCREMENT P BY 1 BY SETTING BIT 0		
000140		SIL*00	001001	5034 00
000141	*	THEN SET BIT 1 OF P AND		
000142	*	REMOVE DISC ADV P		
000143	*	TEST WILL CONTINUE AS SELECTED		
000144		STOP*40	001002	5036 40
000145		NO-OP	001003	5047 00
000146		REMARK*TO FAULT AND SKIP STOP TEST		
000147		JP*L0K+2	001004	34 1000
000150		JP*SKIPSTOP EXECUTE SKIP STOP TEST	001005	34 1105
000151		SXL*00	001006	5036 00
000152		JP*PRELIM OMIT SKIPSTOP	001007	34 1201
000153	*	THE FOLLOWING IS A MANUAL CHECK		
000154	*	OF ALL KEY SKIPS AND STOPS-STOP		
000155	*	40 INDICATES ERROR WITH K VALUE		
000156	FLTISOL	0*0 ENTRY	001010	00 0000
000157		REMARK*RTC DISABLE SW MUST BE OFF TO		
000160		REMARK*PROPERLY USE THIS ISOLATION ROUTINE		
000161		SXL DISABLE EIRS	001011	5036 00
000162		JP*NWL2	001012	34 4713
000163		ENTAL*RTCOK RETURN AT	001013	12 1100
000164		STRAL*012 RTC MON INT ENT ADDR	001014	44 0012
000165		ENTAL*END1P2 RTC MON IS	001015	12 1077
000166		STRAL*014 +2 OF WD	001016	44 0014
000167		ADDALK*7775 AT RTC	001017	71 7775
000170		STRAL*015 INC ADDR	001020	44 0015
000171		RTC ENABLE RTC MON	001021	5014 00

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NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	PAGE ADDRESS	0005 INSTRUCT
000172		RIL ENABLE INTERNAL INTS	001022	5030 00
000173		ENTALK*3000 DELAY AT LEAST 1024 US	001023	70 3000
000174		ADDALK*7776 RECEIVE	001024	71 7776
000175		JPALNZ*L0K-1 OF RTC MON INT	001025	63 1024
000176		ENTALK*01 FLAG RTC MON	001026	70 0001
000177		STRAL*SPINTE NOT RECEIVED	001027	44 1101
000200	RTC0V	ENTAL*RTC0VC JP AT	001030	12 1102
000201		STRAL*013 RTC OVERFLOW INT ADDR	001031	44 0013
000202		ENTALK*7777 FILL	001032	70 7777
000203		STRAL*015 RTC INC REG	001033	44 0015
000204		RIL EN INTS	001034	5030 00
000205		ENTALK*3000 DELAY 1024US	001035	70 3000
000206		ADDALK*7776 TO RECEIVE RTC	001036	71 7776
000207		JPALNZ*L0K-1 OVERFLOW INT	001037	63 1036
000210		ENTAL*SPINTE RECORD ERROR	001040	12 1101
000211		ADDALK*02 NO RTC	001041	71 0002
000212		STRAL*SPINTE OVERFLOW INT	001042	44 1101
000213	RILFLT	ENTAL*RILERQ RETURN AT	001043	12 1103
000214		STRAL*0000 FLT INT ENT	001044	44 0000
000215		RIL EN INTS	001045	5030 00
000216		00*0000 FORCE INST FLT	001046	00 0000
000217		ENTAL*SPINTE RECORD INFO-	001047	12 1101
000220		ADDALK*04 RIL DOES NOT	001050	71 0004
000221		STRAL*SPINTE LOCKOUT FLT	001051	44 1101
000222	MONINT	ENTBK*0466 STORE	001052	36 0466
000223		ENTAL*END1 STOPS	001053	12 4350
000224		STRALB*011 AT	001054	45 0011
000225		BJP*L0K-1 11-477	001055	73 1054
000226		ENTAL*MON0K RETURN AT	001056	12 1104
000227		STRAL*0140 CHAN 0 OUT MON INT ENT	001057	44 0140
000230		OUT*00 OUT 0	001060	5012 00

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TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1226		0*L0K+1 W/M0N	001061	001062
		2*L0K FWD	001062	201062
		OUTSTP*00 TERM CHAN 0 OUT	001063	5016 00
		OUT0V*00 PR0DUCE 0UT M0N	001064	5026 00
		RIL ENABLE 0UT M0N INT	001065	5030 00
CHANGE 7		ENTALK*3000 WAIT T0	001066	70 3000
		ADDALK*7775 T0 INSURE RECEIPT	001067	71 7775
		JPALNZ*L0K-1 0UT M0N INT	001070	63 1067
		ENTAL*SPINTE RECORD ERR-	001071	12 1101
		ADDALK*010 N0 0UT M0N	001072	71 0010
		STRAL*SPINTE RECEIVED	001073	44 1101
	DISP0UT	ENTAU*SPINTE DISPLAY SP INT FLGS	001074	10 1101
		IJP*FLTIS0L EXIT T0 ST0P	001075	55 1010
		RESERV*01	001076	000000
	END1P2	505642 ST0P*40+2	001077	505642
	RTC0K	JP*RTC0V AT 12	001100	34 1030
	SPINTE	0*0 ERROR FLG STR	001101	00 0000
	RTC0VC	JP*RILFLT AT 13	001102	34 1043
	RILER0	JP*M0NINT AT 0000	001103	34 1052
	M0N0K	JP*DISP0UT AT 140	001104	34 1074
	SKIPST0P	SIL*0 SET INTERRUPT LOCK0UTS.	001105	5034 00
		SXL*00 ADDED INSURANCE 0F LOCK0UT	001106	5036 00
		ST0P*40 SET ALL SKIP AND ST0P KEYS AND	001107	5056 40
	*	RESTART THE 0MPUTER.		
		505600 IF ST0P 0CCURS,THE ST0P LIGHT	001110	505600
	*	LITE 0RRESP0NDS T0 A K		
	*	REGISTER BIT THAT ALWAYS		
	*	APPEARS T0 BE SET F0R ST0PS.		
		SKP*00 D0 ANY 0F THE K REGISTER BITS	001111	5050 00
	*	ALWAYS APPEAR T0 BE SET F0R		
	*	SKIP INSTRUCTI0NS?		

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TABLE 8-73 PROGRAM LISTING



SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0007
000270		JP*SKPST2	001112	34 1125		
000271	*					
000272	*					
000273		SKPEVN*0	001113	5055 00		
000274		JP*SKPST1	001114	34 1120		
000275	*					
000276		SKP0DD*0	001115	5054 00		
000277		JP*SKPST1	001116	34 1120		
000300	*					
000301		STOP*40	001117	5056 40		
000302	*					
000303	*					
000304	SKPST1	STOP*40	001120	5056 40		
000305	*					
000306	*					
000307	*					
000310	*					
000311	*					
000312	*					
000313	*					
000314	*					
000315	*					
000316	*					
000317	*					
000320	*					
000321	*					
000322		SKP*00	001121	5050 00		
000323		JP*L0K*2	001122	34 1124		
000324		JP*L0K*2	001123	34 1121		
000325		STOP*40	001124	5056 40		
000326	SKPST2	ENTAL*P0SZER0	001125	12 4475		

NO, CONTINUE TESTING.  
 YES. IS THE FALSE SKIP  
 CONDITION ONLY UP FOR 5050XX  
 INSTRUCTIONS?  
 YES. GO TO ISOLATE TO THE

FAILING K BIT.

YES. GO TO ISOLATE TO THE  
 FAILING K BIT POSITION.  
 NO. THE SKIP CONDITION IS  
 ALWAYS UP FOR ALL SKIP  
 INSTRUCTIONS.

RESTART THE COMPUTER - IT WILL

HANG UP IN A LOOP. RELEASE  
 THE SKIP KEYS ONE BY ONE  
 UNTIL A 5 STOP OCCURS. THE  
 LAST KEY TO BE RELEASED  
 BEFORE THE STOP OCCURS,  
 CORRESPONDS TO THE K REGISTER  
 BIT THAT ALWAYS APPEARS TO BE  
 SET FOR SKIP INSTRUCTIONS.

IF THE PROGRAM IS STILL LOOPING  
 AFTER ALL THE SKIP KEY HAVE  
 BEEN RELEASED, THIS INDICATES  
 THAT K REGISTER BIT 05 ALWAYS  
 APPEARS SET FOR SKIPS.

INITIATE FAILURE TO SKIP FLAG.

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 TABLE 8-73 PROGRAM LISTING

CHANGE 7

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SEGNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0000
000327		SKP*01	IF SKP*01 FAILS	001126	5050	01
000330		SLSET*SS0	SET BIT 00 IN THE FLAG.	001127	51	4700
000331		SKP*02	IF SKP*02 FAILS	001130	5050	02
000332		SLSET*SS1	SET BIT 01 IN THE FLAG.	001131	51	4701
000333		SKP*04	IF SKP*04 FAILS	001132	5050	04
000334		SLSET*SS2	SET BIT 02 IN THE FLAG.	001133	51	4702
000335		SKP*10	IF SKP*10 FAILS	001134	5050	10
000336		SLSET*SS3	SET BIT 03 IN THE FLAG.	001135	51	4703
000337		SKP*20	IF SKP*20 FAILS	001136	5050	20
000340		SLSET*SS4	SET BIT 04 IN THE FLAG.	001137	51	4704
000341		SKP*40	IF SKP*40 FAILS	001140	5050	40
000342		SLSET*SS5	SET BIT 05 IN THE FLAG.	001141	51	4705
000343		JPALZ*SKPST3	IF NO SKIP FAILURE WAS DETECTED	001142	01	1151
000344	*		G0 TEST THE STOP.			
000345		SKPEVN*0	DOES THE FAILURE AFFECT OTHER	001143	5055	00
000346		JP*L0K+2	SKIP INSTRUCTIONS?	001144	54	1140
000347		JP*L0K+3		001145	54	1150
000350		SKP00D*0		001146	5054	00
000351		SLSET*SS6	YES. SET BIT 06 IN THE FLAG.	001147	51	4706
000352		STOP*40		001150	5056	40
000353	*		AL EQUAL TO 000177 IMPLIES THAT			
000354	*		THE FAILURE AFFECTS ALL SKIP			
000355	*		INSTRUCTIONS.			
000356	*		AL EQUAL TO 000077 IMPLIES THAT			
000357	*		THE FAILURE AFFECTS ALL K			
000360	*		VALUES FOR THE 5050XX SKIP			
000361	*		INSTRUCTION.			
000362	*		IF A SINGLE BIT IS SET IN AL			
000363	*		THEN EITHER THE CORRESPONDING			
000364	*		SKIP KEY OR K REGISTER BIT			
000365	*		PATH FOR SKIPS HAS FAILED.			

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NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	PAGE	0009
			ADDRESS	INSTRUCT
000366	SKPST3	STOP*77	001151	5056 77
000367	*	IF ANY STOP LIGHT IS NOT LITE,		
000370	*	THEN EITHER THE CORRESPONDING		
000371	*	STOP KEY OR K REGISTER BIT		
000372	*	PATH FOR STOPS HAS FAILED.		
		IF ALL THE STOP LIGHTS ARE LITE,		
000373	*	THEN CLEAR ALL THE SKIP AND		
000374		STOP*37	001152	5056 37
000375	*	THE STOP KEY CORRESPONDING TO		
000376	*	THE STOP LIGHT LITE ALWAYS		
000377	*	ALL THE STOP KEYS.		
		APPEARS SET.		
000400		SKP*37	001153	5050 37
000401		JP*SKPST4	001154	34 1156
000402	*	IF ALL SKIP KEYS ARE CLEARED,		
		BYPASS THE WTFI HANG UP.		
000403		WTFI	001155	5024 00
000404	*	IF ALL OF THE STOPS FAIL, THE		
000405	SKPST4	PROGRAM WILL HANG UP HERE.		
000406		INITIATE THE ERROR FLAG.	001156	12 4475
000407	*	SKP*01	001157	5050 01
		DOES SKIP KEY 0 ALWAYS APPEAR		
		TO BE SET?		
000410		JP*L0K+2	001160	34 1162
000411		SLSET*SS0	001161	51 4700
000412		SKP*02	001162	5050 02
		YES. SET BIT 00 IN THE FLAG.		
		DOES SKIP KEY 1 ALWAYS APPEAR		
		TO BE SET?		
000413	*			
000414		JP*L0K+2	001163	34 1165
000415		SLSET*SS1	001164	51 4701
000416		SKP*04	001165	5050 04
000417	*	DOES SKIP KEY 2 ALWAYS APPEAR		
		TO BE SET?		
000420		JP*L0K+2	001166	34 1170
000421		SLSET*SS2	001167	51 4702
000422		SKP*10	001170	5050 10
		YES. SET BIT 02 IN THE FLAG.		
		DOES SKIP KEY 3 ALWAYS APPEAR		
		TO BE SET?		
000423	*			
000424		JP*L0K+2	001171	34 1173

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEGN0	LABEL	STATEMENT	ADDRESS	INSTRUCT
000425		SLSET*SS3	001172	51 4703
000426		SKP*20	001173	5050 20
000427	*			
000430		JP*L0K+2	001174	34 1176
000431		SLSET*SS4	001175	51 4704
000432		JPALZ*L0K+2	001176	61 1200
000433	*			
000434	*			
000435		STOP*40	001177	5056 40
000436	*			
000437	*			
000440	*			
000441		STOP*40	001200	5056 40
000442		REMARK*SET STOP AND SKIP KEYS AS NEEDED		
000443	PRELIM	ENTAL*AFLT RJP TO FLT RT INT	001201	12 4361
000444		STRAL*0000 FLT ENT ADDR	001202	44 0000
000445		ENTAL*REPLEM AL EQ 34L0K+5	001203	12 4615
000446		STRAL*SMEAL PRESTORE JUMP	001204	44 1241
000447		ENTAL*ISAU AL EQ 00KUP	001205	12 4616
000450		STRAL*SAUCE PRESTORE CONSTANT	001206	44 1250
000451		ENTAL*STARTADD P OF CONTBASI	001207	12 4630
000452		STRAL*INFLT	001210	44 4404
000453		ENTAL*NEGZER0	001211	12 4477
000454		JPALZ*ALLOW	001212	61 1233
000455		ENTAL*POSZER0	001213	12 4475
000456		JPALZ*L0K+5	001214	61 1221
000457		CMAL*POSZER0	001215	02 4475
000460		JPALZ*L0K+2	001216	61 1220
000461		STOP*40	001217	5056 40
000462		STOP*40	001220	5056 40
000463		CMAL*ZER0SEPT	001221	02 4425

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CHANGE 7

TABLE 8-73 PROGRAM LISTING  
 NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

SEGN0	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0011
000464		JPEQ*L0K+4	CHK EQ FF SET OR COMP FF NOT SET	001222	61	1226
000465		CMAL*POSZER0	AL EQ Y	001223	02	4475
000466		JPEQ*JUMRET	CHK 02 TRANS AND EQ FF NOT SET	001224	61	1237
000467		STOP*40	ERROR STOP	001225	5056	40
000470		ENTAL*QUTREDEUX		001226	12	4414
000471		CMAL*QUTREDEUX	AL EQ Y	001227	02	4414
000472		JPEQ*L0K+2	IF JP-EQ FF SET=NO JP-COMP NOT SET	001230	61	1232
000473		STOP*40	ERROR STOP	001231	5056	40
000474		STOP*40	ERROR STOP	001232	5056	40
000475	ALLOW	ENTAL*SEPTZER0		001233	12	4653
000476		JPALZ*L0K+2	IF JP-AL EQ 0 SET	001234	61	1236
000477		STOP*40	ERROR STOP	001235	5056	40
000500		STOP*40	ERROR STOP	001236	5056	40
000501	JUMRET	RJP*SMEAL	CHK RJP-IF NO JP-P ADV ERROR	001237	76	1241
000502		STOP*40	ERROR STOP	001240	5056	40
000503	SMEAL	JP*L0K+5	IF JP-NORMAL JP-ERROR	001241	34	1246
000504		ENTAL*SMEAL		001242	12	1241
000505		CMAL*PEAPLUS	IS CORRECT P+1 STORED	001243	02	4623
000506		JPEQ*L0K+3	YES-CONTINUE	001244	61	1247
000507		STOP*40	ERROR STOP	001245	5056	40
000510		STOP*40	ERROR STOP	001246	5056	40
000511		IJP*SAUCE	CHK IJP	001247	55	1250
000512	SAUCE	00*KUP		001250	00	1252
000513		STOP*40	ERROR STOP	001251	5056	40
000514	KUP	ENTAL*ELM	AL EQ 12POSZER0-STORE PR0G AT TOP-	001252	12	4633
000515		STRAL*7775	OF STACK TO CHK FOR P BITS DROPPED	001253	44	7775
000516		ENTAL*ELM1	AL EQ 34ELM2	001254	12	4634
000517		STRAL*7776		001255	44	7776

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7

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SEGN0	LABEL	STATEMENT	ADDRESS	INSTRUCT
000520		ENTAL*LOK*2 IF FAULT*DISPLAY JP TO 7775	001256	12 1260
000521		STRAL*INFLT UPPER BITS DROPPED WILL STOP AT	001257	44 4404
000522		JP*7775 SOME STOP IN MAIN PROGRAM	001260	34 7775
000523	ELM2	N0-0P	001261	5047 00
000524		JP*EXRET TO EXEC	001262	34 1264
000525		JP*PRELIM TO RECYCLE PRELIM	001263	34 1201
000526	EXRET	RJP*DEEDEE EXEC	001264	76 1331
000527		RJP*KONG EXECUTE KONG	001265	76 1377
000530		RJP*SLUP EXECUTE SLUP	001266	76 1542
000531		RJP*ICEBERG EXECUTE ICEBERG	001267	76 1677
000532		RJP*CAME0 EXECUTE CAME0	001270	76 2120
000533		RJP*SUPEREG EXECUTE SUPEREG	001271	76 2306
000534	EXEDL	505600 SET UP PARAMETERS	001272	505600
000535		SIL*0 LOCK OUT ALL INTERRUPTS	001273	5034 00
000536		ENTSR*12 REFER TO MEDIA	001274	5073 12
000537		ENTAU*MEMPARA AU-CONTROL MEM SIZE	001275	10 6142
000540		ENTAL*MEMPARB AL-MAIN MEM SIZE	001276	12 6143
000541		STOP*10	001277	5056 10
000542		STRAU*MEMPARA STORE AWAY MEDIA MEMORY	001300	46 6142
000543		STRAL*MEMPARB PARAMETERS	001301	44 6143
000544		ENTSR*11 REFER TO IOTA	001302	5073 11
000545		ENTAU*AUPRAM AU-JUMPERED CHANNELS	001303	10 7260
000546		ENTAL*ALPRAM AL-N0 OF CHANNELS	001304	12 7261
000547		STOP*10	001305	5056 10
000550		STRAU*AUPRAM STORE AWAY IOTA PARAMATERS	001306	46 7260
000551		STRAL*ALPRAM	001307	44 7261
000552		ENTSR*00	001310	5073 00
000553		RJP*KAYADDER EXECUTE KAYADDER	001311	76 2447
000554		RJP*SHIFLESS EXECUTE SHIFLESS	001312	76 2567
000555		RJP*ADDSUBAD EXECUTE ADDSUBAD	001313	76 3204
000556		RJP*MUDDIVE EXECUTE MUDDIVE	001314	76 3414

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	PAGE	INSTRUCT	0013
000557		RJP+PARITY	001315	76	3560	
000560		ENTAU+POSZER0	001316	10	4475	
000561		ENTALK+0000	001317	70	0000	
000562		STRAL+WASTE CL WASTE, PREP RECYCLE	001320	44	4607	
000563		STOP+01 SET STOP KEY 0 TO END TEST	001321	5056	01	
000564		SKP+20 SET SKP 4 TO CYCLE CONTBASI	001322	5050	20	
000565		IJP+EXEDL1 GO TO MEDIA	001323	55	1326	
000566		JP+PRELIM CYCLE CONT	001324	34	1201	
000567		N0=0P	001325	5047	00	
000570	EXEDL1	022000	001326		022000	
000571		N0=0P	001327	5047	00	
000572		RESERV+01	001330		000000	
000573	DEEDEE	0+0 ENTRANCE	001331	00	0000	
000574		ENTAL+SEPTZER0	001332	12	4653	
000575		STRAL+STR0LL	001333	44	4602	
000576		ENTAU+TR0ISCING	001334	10	4412	
000577		STRAU+STR0LL	001335	40	4602	
000600		ENTAL+STR0LL	001336	12	4602	
000601		CMAL+TR0ISCING	001337	02	4412	
000602		JPEQ+FUMBLE+2	001340	01	1365	
000603		CMAL+SEPTZER0	001341	02	4653	
000604		JPEQ+FUMBLE	001342	01	1363	
000605		JPALZ+FUMBLE+1	001343	01	1364	
000606	T0BY	STRAL+SR0BY	001344	44	4604	
000607		STRAL+SR0BY+1	001345	44	4605	
000610		SUBA+SR0BY	001346	22	4604	
000611		STRAU+STR0LL	001347	40	4602	
000612		ENTAL+STR0LL	001350	12	4602	
000613		JPALZ+L0K+2	001351	01	1353	
000614		STOP+40	001352	5056	40	
000615		SUBA+TW0SEV	001353	22	4532	
		ERROR STOP				
		SUB WITH 777777-777777				

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1234		STRAU*STRØLL	001354	46 4602
		ENTAL*STRØLL	001355	12 4602
		CMAL*NEGZERØ	001356	02 4477
		JPEQ*LØK+2	001357	61 1361
		STØP*40	001360	5056 40
		CHK FOR CONST Ø IN AU BITS		
		IF JP INPUT ERRØR		
		ERRØR STØP		
CHANGE 7		ENTAL*SRØRY	001361	12 4604
		STØP*40	001362	5056 40
	FUMBLE	ERRØR STØP		
		STØP*40	001363	5056 40
		ERRØR STØP		
		STØP*40	001364	5056 40
		ERRØR STØP		
		ENTAU*QUTREDEUX	001365	10 4414
		STRAU*STRØLL	001366	46 4602
		ENTAL*STRØLL	001367	12 4602
		CMAL*QUTREDEUX	001370	02 4414
		IS AU CORRECT		
		YES-CØNT		
		JPEQ*LØK+2	001371	61 1373
		JP*TOBY	001372	34 1344
		NØ=ØP	001373	5047 00
		EXIT		
		IJP*DEEDEE	001374	55 1331
		JP*DEEDEE+1	001375	34 1332
		TO RECYCLE DEEDEE		
		RESERV*Ø1	001376	000000
	KØNG	Ø*Ø	001377	00 0000
		ENTRANCE		
		ENTALK*ØØ	001400	70 0000
		STRAL*COLLECT	001401	44 4577
		ENTALK*7777	001402	70 7777
		CKK FUNC 7Ø		
		AL EQ 777777		
		CMAL*NEGZERØ	001403	02 4477
		AL EQ 777777		
		JPEQ*LØK+2	001404	61 1406
		YES-CØNTINUE		
		STØP*40	001405	5056 40
		NØ=ERRØR STØP		
		ENTALK*3777	001406	70 3777
		IS AL ØØ3777		
		CMAL*MAZE	001407	02 4436
		JPEQ*LØK+2	001410	61 1412
		STØP*40	001411	5056 40
		ERRØR STØP		
		AL EQ 350000		
		ENTAL*THIFIVE	001412	12 4424

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING



SEGN0	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0015
000655		ADDALK*3535	001413	71	3535	
000656		CMAL*TR0ISCINQ	001414	02	4412	
000657		JPEQ*L0K+2	001415	61	1417	
000660		STOP*40	001416	5056	40	
000661		ENTAL*DUALSEV	001417	12	4660	
000662		ADDALK*7700	001420	71	7700	
000663		JPALZ*L0K+2 AL EQ 0=YES=CONTINUE	001421	61	1423	
000664		STOP*40 NO=ERROR STOP	001422	5056	40	
000665		ENTAU*POSZERO	001423	10	4475	
000666		JPAUZ*L0K+4	001424	60	1430	
000667		ENTAL*COLLECT	001425	12	4577	
000670		ADDALK*0001	001426	71	0001	
000671		STRAL*COLLECT	001427	44	4577	
000672		ENTAU*ZEROSEPT	001430	10	4425	
000673		JPAUZ*L0K+2	001431	60	1433	
000674		JP*L0K+4	001432	34	1436	
000675		ENTAL*COLLECT	001433	12	4577	
000676		ADDALK*0002	001434	71	0002	
000677		STRAL*COLLECT	001435	44	4577	
000700		JPAUNZ*L0K+4	001436	62	1442	
000701		ENTAL*COLLECT	001437	12	4577	
000702		ADDALK*0004	001440	71	0004	
000703		STRAL*COLLECT	001441	44	4577	
000704		ENTAU*POSZERO	001442	10	4475	
000705		JPAUNZ*L0K+2	001443	62	1445	
000706		JP*L0K+4	001444	34	1450	
000707		ENTAL*COLLECT	001445	12	4577	
000710		ADDALK*0010	001446	71	0010	
000711		STRAL*COLLECT	001447	44	4577	
000712		ENTAU*ZEROSIX	001450	10	4647	
000713		JPAUP*L0K+4	001451	64	1455	

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1235

SEONO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1236	000714	ENTAL*COLLECT	001452	12 4577
	000715	ADDALK*0020	001453	71 0020
	000716	STRAL*COLLECT	001454	44 4577
	000717	ENTAU*TSEVTZER	001455	10 4430
	000720	JPAUP*L0K+2	001456	64 1460
	000721	JP*L0K+4	001457	34 1463
	000722	ENTAL*COLLECT	001460	12 4577
	000723	ADDALK*0040	001461	71 0040
	000724	STRAL*COLLECT	001462	44 4577
	000725	JPAUNG*L0K+4	001463	66 1467
	000726	ENTAL*COLLECT	001464	12 4577
	000727	ADDALK*0100	001465	71 0100
	000730	STRAL*COLLECT	001466	44 4577
	000731	ENTAU*ZEROSEPT	001467	10 4425
	000732	JPAUNG*L0K+2	001470	66 1472
	000733	JP*L0K+4	001471	34 1475
	000734	ENTAL*COLLECT	001472	12 4577
	000735	ADDALK*0200	001473	71 0200
	000736	STRAL*COLLECT	001474	44 4577
	000737	ENTAL*SIXSEPT	001475	12 4445
	000740	JPALNZ*L0K+4	001476	63 1502
	000741	ENTAL*COLLECT	001477	12 4577
	000742	ADDALK*0400	001500	71 0400
	000743	STRAL*COLLECT	001501	44 4577
	000744	ENTAL*POSZER0	001502	12 4475
	000745	JPALNZ*L0K+2	001503	63 1505
	000746	JP*L0K+4	001504	34 1510
	000747	ENTAL*COLLECT	001505	12 4577
	000750	ADDALK*1000	001506	71 1000
	000751	STRAL*COLLECT	001507	44 4577
	000752	ENTAL*TR0ISZER0	001510	12 4451

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0017
000753		JPALP*L0K+4	001511	65	1515	
000754		ENTAL*COLLECT	001512	12	4577	
000755		ADDALK*2000	001513	71	2000	
000756		STRAL*COLLECT	001514	44	4577	
000757		ENTAL*SIXSEPT	001515	12	4445	
000760		JPALP*L0K+2	001516	65	1520	
000761		JP*L0K+4	001517	34	1523	
000762		ENTAL*COLLECT	001520	12	4577	
000763		ADDALK*4000	001521	71	4000	
000764		STRAL*COLLECT	001522	44	4577	
000765		JPALNG*L0K+2	001523	67	1525	
000766		JP*L0K+6	001524	34	1532	
000767		ENTAL*ZEROSIX	001525	12	4647	
000770		JPALNG*L0K+6	001526	67	1534	
000771		ENTAL*COLLECT	001527	12	4577	
000772		JPALZ*L0K+6	001530	61	1536	
000773		STOP*40	001531	5056	40	
000774		ENTAU*ZEROUNE	001532	10	4646	
000775		JP*L0K=2	001533	34	1531	
000776		ENTAU*ZERODEUX	001534	10	4453	
000777		JP*L0K=4	001535	34	1531	
001000		N0=0P	001536	5047	00	
001001		IJP*KONG	001537	55	1377	
001002		JP*KONG+1	001540	34	1400	
001003		RESERV*01	001541		000000	
001004	SLUP	0*0	001542	00	0000	
001005		ENTAL*TR0ISCING	001543	12	4412	
001006		SLSET*QUTREDEUX	001544	51	4414	
001007		CMAL*NEGZER0	001545	02	4477	
001010		JPEQ*L0K+2	001546	61	1550	
001011		STOP*40	001547	5056	40	

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1237

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0018
001012		ENTAL*QUTREDEUX	001550	12 4414		
001013		SLSET*TR0ISCINQ	001551	51 4412		
001014		CMAL*NEGZER0	001552	02 4477		
001015		JPEQ*L0K+2	001553	61 1555		
001016		ST0P*40	001554	5056 40		
		IS AL 777777				
		YES=CONTINUE				
		NO=ERROR ST0P				
001017		ENTAL*SEPTZER0	001555	12 4653		
001020		SLCL*ZER0SEPT	001556	52 4425		
001021		JPALZ*L0K+2	001557	61 1561		
001022		ST0P*40	001560	5056 40		
001023		ENTAL*ZER0SEPT	001561	12 4425		
001024		SLCL*SEPTZER0	001562	52 4653		
001025		JPALZ*L0K+2	001563	61 1565		
001026		ST0P*40	001564	5056 40		
		IS AL ZER0=YES=CONTINUE				
		NO=ERROR ST0P				
001027		ENTAL*QUTREDEUX	001565	12 4414		
001030		SLCP*TR0ISCINQ	001566	53 4412		
001031		CMAL*NEGZER0	001567	02 4477		
001032		JPEQ*L0K+2	001570	61 1572		
001033		ST0P*40	001571	5056 40		
001034		ENTAL*TR0ISCINQ	001572	12 4412		
001035		SLCP*QUTREDEUX	001573	53 4414		
001036		CMAL*NEGZER0	001574	02 4477		
		IS AL 777777				
001037		JPEQ*L0K+2	001575	61 1577		
001040		ST0P*40	001576	5056 40		
001041		ENTAU*SEPTZER0	001577	10 4653		
001042		ENTAL*TR0ISCINQ	001600	12 4412		
001043		SLSU*QUTREDEUX	001601	04 4414		
001044		CMAL*QUTRECINQ	001602	02 4440		
001045		JPEQ*L0K+2	001603	61 1605		
001046		ST0P*40	001604	5056 40		
		YES=CONTINUE				
		NO=ERROR ST0P				
		AU EQ 707070				
		AL EQ 355535				
001047		ENTAU*ZER0SEPT	001605	10 4425		
001050		ENTAL*TR0ISCINQ	001606	12 4412		
		AU EQ 070707				
		AL EQ 353535				

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CHANGE 7

TABLE 8-73 PROGRAM LISTING

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0019
001051		SLSU*QUTREDEUX	001607	04 4414		
001052		CMAL*TR0ISDEUX	001610	02 4437		
001053		JPEG*L0K+2	001611	01 1613		
001054		STOP*40	001612	5056 40		
001055		ENTAL*TR0ISCING	001613	12 4412		
001056		CPAL	001614	5061 00		
001057		CMAL*QUTREDEUX	001615	02 4414		
001060		JPEG*L0K+2	001616	01 1620		
001061		STOP*40	001617	5056 40		
001062		CPAL	001620	5061 00		
001063		CMAL*TR0ISCING	001621	02 4412		
001064		JPEG*L0K+2	001622	01 1624		
001065		STOP*40	001623	5056 40		
001066		ENTAL*POSZER0	001624	12 4475		
001067		CPAL	001625	5061 00		
001070		JPALZ*L0K+2	001626	01 1630		
001071		STOP*40	001627	5056 40		
001072		ENTAU*TR0ISCING	001630	10 4412		
001073		CPAU	001631	5062 00		
001074		STRAU*WASTE	001632	46 4607		
001075		ENTAL*WASTE	001633	12 4607		
001076		CMAL*QUTREDEUX	001634	02 4414		
001077		JPEG*L0K+2	001635	01 1637		
001100		STOP*40	001636	5056 40		
001101		CPAU	001637	5062 00		
001102		STRAU*WASTE	001640	46 4607		
001103		ENTAL*WASTE	001641	12 4607		
001104		CMAL*TR0ISCING	001642	02 4412		
001105		JPEG*L0K+2	001643	01 1645		
001106		STOP*40	001644	5056 40		
001107		ENTAU*POSZER0	001645	10 4475		

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1239

SEGN0	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1240		CPAU	CHK FOR COMP ZERO	001646 5062 00
		JPAUZ+L0K+2	AU ZERO=YES=OK	001647 60 1651
		STOP*40	NO=ERROR STOP	001650 5056 40
		ENTAU+TR0ISCING		001651 10 4412
		ENTAL+TR0ISCING		001652 12 4412
CHANGE 7		CPA	CHK FUNC 5063	001653 5063 00
		CMAL+OUTREDEUX	IS AL 424242	001654 02 4414
		JPEQ+L0K+2	YES=CONTINUE	001655 61 1657
		STOP*40	NO=ERROR STOP	001656 5056 40
		STRAU+WASTE		001657 46 4607
		ENTAL+WASTE		001660 12 4607
		CMAL+OUTREDEUX	IS AL 424242	001661 02 4414
		JPEQ+L0K+2	YES=CONT	001662 61 1664
		STOP*40	NO=ERROR STOP	001663 5056 40
		ENTAU+POSZERO		001664 10 4475
		ENTALK*00		001665 70 0000
		CPA*00	CHK FOR COMP OF 0	001666 5063 00
		JPAUZ+L0K+2	AU 0=YES=CONTINUE	001667 60 1671
		STOP*40	NO=ERROR STOP	001670 5056 40
		JPALZ+L0K+2	AL 0=YES=CONTINUE	001671 61 1673
		STOP*40	NO=ERROR STOP	001672 5056 40
		NO=0P		001673 5047 00
		IJP*SLUP	EXIT	001674 55 1542
		JP*SLUP+1	T0 RECYCLE SLUP	001675 34 1543
		RESERV*01		001676 000000
	ICEBERG	0*0	ENTRANCE	001677 00 0000
		ENTALK*7777		001700 70 7777
		STRAL+WASUP		001701 44 4617
		ENTAL+POSZERO		001702 12 4475
		STRAL+WASTE	CL WASTE	001703 44 4607
		STRAL*COLLECT	CL COLLECT	001704 44 4577

SEGN0	LABEL	STATEMENT	PAGE	0021
			ADDRESS	INSTRUCT
001147		ENTAL*BEEREG	001705	12 4433
001150		STRAL*BEWARE	001706	44 1713
001151		ENTALK*7710	001707	70 7710
001152		STRAL*DUNLUP	001710	44 4620
001153		ENTALK*10	001711	70 0010
001154		STRAL*BELONG	001712	44 4576
001155	BEWARE	000000	001713	000000
001156		STRICR*WASTE	001714	72 4607
001157		STRICR*WASUP	001715	72 4617
001160		ENTAL*WASUP	001716	12 4617
001161		CMAL*DUNLUP	001717	02 4620
001162		JPEQ*L0K+2	001720	61 1722
001163		STOP*40	001721	5056 40
001164		ENTAL*WASTE	001722	12 4607
001165		CMAL*BELONG	001723	02 4576
001166		JPEQ*L0K+6	001724	61 1732
001167		JPALNZ*L0K+2	001725	63 1727
001170		STOP*40	001726	5056 40
001171		ENTAL*COLLECT	001727	12 4577
001172		ADDALK*01	001730	71 0001
001173		STRAL*COLLECT	001731	44 4577
001174		ENTAL*COLLECT	001732	12 4577
001175		LSHAL*01	001733	5046 01
001176		STRAL*COLLECT	001734	44 4577
001177		ENTAL*DUNLUP	001735	12 4620
001200		ADDALK*7776	001736	71 7776
001201		STRAL*DUNLUP	001737	44 4620
001202		ENTAL*BELONG	001740	12 4576
001203		ADDALK*7776	001741	71 7776
001204		STRAL*BELONG	001742	44 4576
001205		ENTAL*BEWARE	001743	12 1713

CHANGE 7 8-1241

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
001206		ADDALK*7776	001744	71 7776
001207		STRAL*BEWARE	001745	44 1713
001210		SLCL*DUALSEV	001746	52 4660
001211		JPALNZ*BEWARE	001747	63 1713
001212		ENTAL*COLLECT	001750	12 4577
001213		JPALZ*L0K+2	001751	61 1753
001214		STOP*40	001752	5056 40
001215		STRAL*0001	001753	44 0001
001216		STRAL*0002	001754	44 0002
001217		STRAL*0003	001755	44 0003
001220		STRAL*0004	001756	44 0004
001221		STRAL*0005	001757	44 0005
001222		STRAL*0006	001760	44 0006
001223		STRAL*0007	001761	44 0007
001224		STRAL*0010	001762	44 0010
001225		ENTICR*01	001763	5072 01
001226		ENTBK*7777	001764	36 7777
001227	BEEMIN	ENTAL*0001	001765	12 0001
001230		CMAL*NEGZER0	001766	02 4477
001231		JPEQ*L0K+4	001767	61 1773
001232		JPALZ*L0K+2	001770	61 1772
001233		STOP*40	001771	5056 40
001234		STOP*40	001772	5056 40
001235		ENTAL*POSZER0	001773	12 4475
001236		STRAL*0001	001774	44 0001
001237		ENTAL*BEEMIN	001775	12 1765
001240		STRAL*BEECHK	001776	44 1777
001241	BEECHK	000000	001777	000000
001242		JPALZ*L0K+2	002000	61 2002
001243		STOP*40	002001	5056 40
001244		ENTAL*BEECHK	002002	12 1777

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING



SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0023
001245		ADDALK*01 INCREMENT 1	002003	71 0001		
001246		STRAL*BEECHK	002004	44 1777		
001247		CMAL*BEEMAX ARE ALL B LOKS CHK	002005	02 4622		
001250		JPEQ*L0K+2 YES-CONTINUE	002006	61 2010		
001251		JP*BEECHK NO-CONT CHK B LOKS	002007	34 1777		
001252		ENTB*ZEROSIX CHK FUNC 32	002010	32 4647		
001253		ENTAL*0001	002011	12 0001		
001254		CMAL*ZEROSIX IS AL 000006	002012	02 4647		
001255		JPEQ*L0K+2 YES-CONTINUE	002013	61 2015		
001256		STOP*40 NO-ERROR STOP	002014	5056 40		
001257		ENTBK*01	002015	36 0001		
001260		BJP*L0K+3 CHK FUNC 73 B NOT 0	002016	73 2021		
001261		RJP*PICKAPLUM TEST B+1 NETWORK ,B#0 EVAL	002017	76 3077		
001262		STOP*40 ERROR STOP	002020	5056 40		
001263		BJP*L0K+2 B EQ 0	002021	73 2023		
001264		JP*L0K+3 OK-CONTINUE	002022	34 2025		
001265		RJP*PICKAPLUM TEST B+1 NETWORK,B#0 EVAL	002023	76 3077		
001266		STOP*40 NO-ERROR STOP	002024	5056 40		
001267		BSK*ZERONE CHK FUNC 56-B EQ 0-AL NEQ Y	002025	56 4646		
001270		JP*L0K+3 OK-CONTINUE	002026	34 2031		
001271		RJP*PICKAPLUM TEST B+1 NETWORK,B#0 EVAL	002027	76 3077		
001272		STOP*40 ERROR STOP	002030	5056 40		
001273		BSK*ZERONE B EQ Y=YES-CONTINUE	002031	56 4646		
001274		JP*L0K+2	002032	34 2034		
001275		JP*L0K+3	002033	34 2036		
001276		RJP*PICKAPLUM TEST B+1 NETWORK,B#0 EVAL	002034	76 3077		
001277		STOP*40 NO-ERROR STOP	002035	5056 40		
001300		ENTBK*01 B EQ 1	002036	36 0001		
001301		ISK*01 Y NEQ 0	002037	57 0001		
001302		JP*L0K+3 OK-CONTINUE	002040	34 2043		
001303		RJP*PICKAPLUM TEST B+1 NETWORK,B#0 EVAL	002041	76 3077		

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1243

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1244	001304	STOP*40	002042	5056 40
	001305	ISK*01	002043	07 0001
	001306	JP*L0K+2	002044	34 2046
	001307	JP*L0K+3	002045	34 2050
	001310	RJP*PICKAPLUM TEST B+=1 NETWORK,B#0 EVAL	002046	76 3077
CHANGE 7	001311	STOP*40	002047	5056 40
	001312	ENTBK*01	002050	36 0001
	001313	ENTAU*P0SZER0	002051	10 4475
	001314	ENTAU*UNESEPT	002052	11 4410
	001315	STRAU*WASTE	002053	46 4007
	001316	ENTAL*WASTE	002054	12 4007
	001317	CMAL*UNESEPT+1	002055	02 4411
	001320	JPEG*L0K+7	002056	01 2065
	001321	CMAL*UNESEPT	002057	02 4410
	001322	JPEG*L0K+4	002060	01 2064
	001323	JPALZ*L0K+2	002061	01 2063
	001324	STOP*40	002062	5056 40
	001325	STOP*40	002063	5056 40
	001326	STOP*40	002064	5056 40
	001327	ENTALK*00	002065	70 0000
	001330	ENTALB*UNESEPT	002066	13 4410
	001331	CMAL*UNESEPT+1	002067	02 4411
	001332	JPEG*L0K+4	002070	01 2074
	001333	JPALZ*L0K+2	002071	01 2073
	001334	STOP*40	002072	5056 40
	001335	STOP*40	002073	5056 40
	001336	ENTBB*UNESEPT	002074	33 4410
	001337	ENTAL*01	002075	12 0001
	001340	CMAL*UNESEPT+1	002076	02 4411
	001341	JPEG*L0K+4	002077	01 2103
	001342	JPALZ*L0K+2	002100	01 2102

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
001343		STOP*40	002101	5056 40
001344		STOP*40	002102	5056 40
001345		ENTBK*01	002103	36 0001
001346		ENTBK*01	002104	37 0001
001347		ENTAL*01	002105	12 0001
001350		CMAL*ZEROEUX	002106	02 4453
001351		JPEQ*L0K+5	002107	01 2114
001352		CMAL*ZERONE	002110	02 4646
001353		JPEQ*L0K+2	002111	01 2113
001354		STOP*40	002112	5056 40
001355		STOP*40	002113	5056 40
001356		N0-0P	002114	5047 00
001357		IJP*ICEBERG	002115	55 1677
001360		JP*ICEBERG+1	002116	54 1700
001361		RESERV*01	002117	000000
001362	CAMEO	0*0	002120	00 0000
001363		ENTAL*TR0ISCING	002121	12 4412
001364		STRAL*WASTE	002122	44 4607
001365		CL*WASTE	002123	40 4607
001366		ENTAL*WASTE	002124	12 4607
001367		JPALZ*L0K+5	002125	01 2132
001370		CMAL*TR0ISCING	002126	02 4412
001371		JPEQ*L0K+2	002127	01 2131
001372		STOP*40	002130	5056 40
001373		STOP*40	002131	5056 40
001374		ENTBK*01	002132	36 0001
001375		ENTALK*02	002133	70 0002
001376		STRAL*02	002134	44 0002
001377		CLB*01	002135	41 0001
001400		ENTAL*02	002136	12 0002
001401		JPALZ*L0K+5	002137	01 2144

CHANGE 7 8-1245

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1246	001402	CMAL*ZERONE	002140	02 4646
	001403	JPEQ*L0K+2	002141	61 2143
	001404	STOP*40	002142	5056 40
	001405	STOP*40	002143	5056 40
	001406	ENTBK*01	002144	36 0001
CHANGE 7	001407	ENTALK*00	002145	70 0000
	001410	STRAL*02	002146	44 0002
	001411	STRBB*01	002147	43 0001
	001412	ENTAL*02	002150	12 0002
	001413	CMAL*ZERONE	002151	02 4646
	001414	JPEQ*L0K+4	002152	61 2156
	001415	JPALZ*L0K+2	002153	61 2155
	001416	STOP*40	002154	5056 40
	001417	STOP*40	002155	5056 40
	001420	ENTAL*ZEROSIX	002156	12 4647
	001421	STRALB*01	002157	45 0001
	001422	ENTAL*02	002160	12 0002
	001423	CMAL*ZEROSIX	002161	02 4647
	001424	JPEQ*L0K+5	002162	61 2167
	001425	CMAL*ZERONE	002163	02 4646
	001426	JPEQ*L0K+2	002164	61 2166
	001427	STOP*40	002165	5056 40
	001430	STOP*40	002166	5056 40
	001431	ENTAU*ZERODEUX	002167	10 4453
	001432	STRAUB*01	002170	47 0001
	001433	ENTAL*02	002171	12 0002
	001434	CMAL*ZERODEUX	002172	02 4453
	001435	JPEQ*L0K+5	002173	61 2200
	001436	CMAL*ZEROSIX	002174	02 4647
	001437	JPEQ*L0K+2	002175	61 2177
	001440	STOP*40	002176	5056 40

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
001441		STOP*40	002177	5056 40
001442		CL*WASTE	002200	40 4607
001443		ENTAL*ZEROSEVEN	002201	12 4652
001444		STRADR*WASTE	002202	74 4607
001445		ENTAL*WASTE	002203	12 4607
001446		CMAL*TZERFSEV	002204	02 4666
001447		JPEQ*L0K+7	002205	61 2214
001450		CMAL*ZEROSEVEN	002206	02 4652
001451		JPEQ*L0K+4	002207	61 2213
001452		JPALZ*L0K+2	002210	61 2212
001453		STOP*40	002211	5056 40
001454		STOP*40	002212	5056 40
001455		STOP*40	002213	5056 40
001456		ENTALK*7777	002214	70 7777
001457		STRAL*WASUP	002215	44 4617
001460		ENTAL*B0M20	002216	12 4667
001461		STRADR*WASUP	002217	74 4617
001462		ENTAL*WASUP	002220	12 4617
001463		CMAL*B0M20	002221	02 4667
001464		JPEQ*L0K+2	002222	61 2224
001465		STOP*40	002223	5056 40
001466		ENTBK*17	002224	36 0017
001467		ENTAL*UNEHUNTH0	002225	12 4471
001470		CMALB*CHANL	002226	03 4452
001471		JPEQ*L0K+6	002227	61 2235
001472		ENTBK*00	002230	36 0000
001473		CMALB*UNEHUNTH0	002231	03 4471
001474		JPEQ*L0K+2	002232	61 2234
001475		STOP*40	002233	5056 40
001476		STOP*40	002234	5056 40
001477		ENTAU*ZEROSEVEN	002235	10 4652

NAVSEA Op 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7

8-1247

SEGNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1248	001500	ENTAL*SIXSEPT	002236	12 4445
	001501	CMSK*UNESEPT	002237	06 4410
	001502	JPEQ*L0K+2	002240	61 2242
	001503	STOP*40	002241	5056 40
	001504	ENTBK*01	002242	36 0001
CHANGE 7	001505	CMSK0*TR0ISSEPT	002243	07 4406
	001506	JPEQ*L0K+2	002244	61 2246
	001507	STOP*40	002245	5056 40
	001510	ENTBK*01	002246	36 0001
	001511	JPB*SWAI	002247	35 2250
	001512	SWAI	002250	5056 40
	001513	ENTAL*STOPIT	002251	12 4621
	001514	STRAL*BIEN	002252	44 2256
	001515	STRAL*PORTE	002253	44 2266
	001516	IRJP*ALL0N	002254	30 4611
BIEN	001517	STOP*40	002255	5056 40
	001520	STOP*40	002256	5056 40
	001521	ENTAL*BIEN	002257	12 2256
	001522	CMAL*TRES	002260	02 4612
	001523	JPEQ*L0K+2	002261	61 2263
	001524	STOP*40	002262	5056 40
	001525	ENTBK*01	002263	36 0001
	001526	IRJPB*TRES	002264	31 4612
	001527	STOP*40	002265	5056 40
	001530	PORTE	002266	5056 40
001531	ENTAL*PORTE	002267	12 2266	
001532	CMAL*ROUGE	002270	02 4614	
001533	JPEQ*L0K+2	002271	61 2273	
001534	STOP*40	002272	5056 40	
001535	ENTAU*SEPTZERO	002273	10 4653	
001536	ENTAL*ZEROSEPT	002274	12 4425	

TABLE 8-73 PROGRAM LISTING

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

SEGN0	LABEL	STATEMENT	ADDRESS	INSTRUCT
001537		ENTBK*01	002275	36 0001
001540		SLSUB*ZER0SEPT	002276	05 4425
001541		CMAL*NEGZER0	002277	02 4477
001542		JPEQ*L0K+2	002300	61 2302
001543		ST0P*40	002301	5056 40
001544		N0=0P	002302	5047 00
001545		IJP*CAME0	002303	55 2120
001546		JP*CAME0+1	002304	34 2121
001547		RESERV*01	002305	000000
001550	SUPEREG	0*0	002306	00 0000
001551		ENTAL*D0SUP	002307	12 4624
001552		STRAL*INFLT	002310	44 4404
001553		ENTALK*0077	002311	70 0077
001554		STRAL*WASTE	002312	44 4607
001555		ENTSR*10	002313	5073 10
001556		STRSR*WASTE	002314	75 4607
001557		ENTAL*WASTE	002315	12 4607
001560		CMAL*CHANL+3	002316	02 4455
001561		JPEQ*SR30	002317	61 2333
001562		CMAL*SEVSEV	002320	02 4661
001563		JPEQ*SR30-1	002321	61 2332
001564		JPALNZ*L0K+7	002322	63 2331
001565		ENTSR*17	002323	5073 17
001566		STRSR*WASTE	002324	75 4607
001567		ENTAL*WASTE	002325	12 4607
001570		JPALNZ*L0K+2	002326	63 2330
001571		ST0P*40	002327	5056 40
001572		ST0P*40	002330	5056 40
001573		ST0P*40	002331	5056 40
001574		ST0P*40	002332	5056 40
001575	SR30	ENTALK*7700	002333	70 7700

CHANGE 7 8-1249

WHICH ROUTINE

IS AL 10

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1250		STRAL*WASTE	002334	44 4607
		ENTSR*07	002335	5073 07
		STRSR*WASTE	002336	75 4607
		ENTAL*WASTE	002337	12 4607
		CMAL*SEVENT IS AL 777707	002340	02 4434
CHANGE 7		JPEG*L0K+2 YES CONTINUE	002341	61 2343
		STOP*40 NO ERROR STOP	002342	5056 40
		ENTALK*00	002343	70 0000
		STRAL*WASTE CL CONTENTS	002344	44 4607
		ENTSR*30 CHK SR BIT 5	002345	5073 30
		STRSR*WASTE	002346	75 4607
		ENTAL*WASTE	002347	12 4607
		CMAL*THIRTY IS AL 30	002350	02 4422
		JPEG*L0K+2 YES=CONTINUE	002351	61 2353
		STOP*40 NO=ERROR STOP	002352	5056 40
		ENTICR*01	002353	5072 01
		ENTBK*03	002354	36 0003
		CL*WASTE CL CONTENTS	002355	40 4607
		ENTICR*03	002356	5072 03
		ENTBK*17	002357	36 0017
		ENTICR*03 DETERMINE HIGHEST RANGE OF MAIN	002360	5072 03
		REMARK*MEMORY, 100K, 40K, 20K OR 10K, EXIT IF LESS.		
	MEMZI	ENTALB*CHANL	002361	13 4452
		ENTICR*02	002362	5072 02
		STRAL*0002	002363	44 0002
		ENTAL*SEPTZER0 AL EQ 707070	002364	12 4653
		STRALB*7776	002365	45 7776
		ENTALB*7776	002366	13 7776
		CMAL*SEPTZER0	002367	02 4653
		JPEG*L0K+6	002370	61 2376
		ENTICR*03	002371	5072 03



PAGE 0031  
 ADDRESS INSTRUCT

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
001635		BJP*L0K+1	002372	73 2373
001636		ENTICR*01	002373	5072 01
001637		BJP*MEMZI-1	002374	73 2360
001640		JP*MADEIT	002375	34 2443
001641		ENTICR*01	002376	5072 01
001642		ENTALB*ACKUP	002377	13 4534
001643		STRAL*STACKUP	002400	44 4601
001644	REFILL	ENTICR*03	002401	5072 03
001645		ENTALB*CHANL	002402	13 4452
001646		STRAL*0002	002403	44 0002
001647		CL*7774	002404	40 7774
001650		ENTICR*02	002405	5072 02
001651		ENTAL*STACKED	002406	12 4435
001652		STRALB*7774	002407	45 7774
001653		ENTAL*UNSTACK	002410	12 4625
001654		STRALB*7775	002411	45 7775
001655		ENTAL*7774	002412	12 7774
001656		JPALZ*L0K+5	002413	61 2420
001657	REJECTS	ENTAL*WASTE	002414	12 4607
001660		SLSET*0002	002415	51 0002
001661		STRAL*WASTE	002416	44 4607
001662		JP*BANDIT	002417	34 2423
001663		ENTAL*REFRAD	002420	12 4626
001664		STRAL*0000	002421	44 0000
001665		IJP*STACKUP	002422	55 4601
001666	BANDIT	ENTICR*03	002423	5072 03
001667		BJP*L0K+1	002424	73 2425
001670		ENTICR*01	002425	5072 01
001671		BJP*REFILL-2	002426	73 2377
001672		ENTAL*WASTE	002427	12 4607
001673		JPALZ*L0K+2	002430	61 2432

STORE DIFF BANK SELECTIONS

AL EQ 557775

STORE OUTSIDE BANK 0

AL EQ 00BANDIT

IS BIT DROPPED IN P

YES=ERROR

RECORD ERROR

STORE ERROR RESULT

AL EQ 34REJECTS

CHK IF BANKS WERE ENTERED

AL EQ 0 YES CONTINUE

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1251

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
001674		STOP*40 NO-ERROR STOP	002431	5056 40
001675		ENTB*CHANL+14 B EQ 010000	002432	32 4466
001676		ENTAL*TEAN AL EQ 070007	002433	12 4431
001677		STRALB*7774 STORE IN BANK 1	002434	45 7774
001700		ENTSR*11 ACTIVATE BANK 1	002435	5073 11
001701		ENTAL*7774 CHECK SR TO P ENABLES	002436	12 7774
001702		ENTSR*00 DEACTIVATE SR	002437	5073 00
001703		CHAL*TEAN WAS CORRECT BANK REFERENCED	002440	02 4431
001704		JPEQ*MADEIT YES GO TO END OF TEST	002441	61 2443
001705	DEFEAT	STOP*40 ERROR STOP	002442	5056 40
001706	MADEIT	NO-OP	002443	5047 00
001707		IJP*SUPEREG EXIT	002444	55 2306
001710		JP*SUPEREG+1 TO RECYCLE SUPEREG	002445	34 2307
001711		RESERV*01	002446	000000
001712	KAYADDER	0*0 ENTRANCE	002447	00 0000
001713		ENTAL*KAYADDER STR JP TO RECYCLE TEST	002450	12 2447
001714		ADDALK*7776 SUBTRACT 1 FROM ENTRY	002451	71 7776
001715		STRAL*SUTCFS STORAGE IN AIMAT	002452	44 5400
001716		ENTALK*0 CLEAR INDEX FLAG	002453	70 0000
001717		STRAL*INDEX IN AIMAT	002454	44 5363
001720		ENTICR*01	002455	5072 01
001721		ENTBK*0474	002456	36 0474
001722		CLB*0002	002457	41 0002
001723		BJP*L0K=1	002460	73 2457
001724		ENTALK*0013	002461	70 0013
001725		STRAL*0017	002462	44 0017
001726		ENTALK*01	002463	70 0001
001727		ENTAU*POSZER0	002464	10 4475
001730		SF*77	002465	5044 77
001731		STRAU*TOPCOUNT	002466	46 4606
001732		JPALZ*NWL3 IS AL ZERO=YES=CONT	002467	61 2474

8-1252

CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0033
001733		CMAL*ZEROONE NO-IS AL 000001	002470	02	4646	
001734		JPEQ*NWL4 YES-CONT	002471	61	2475	
001735		ENTAU*0017 AU EQ SHIFT COUNT	002472	10	0017	
001736		RJP*AIMAT REFER TO INTERMITTANT ROUTINE	002473	76	5000	
001737	NWL3	JP*NWL5 MAIN LINE	002474	34	2500	
001740	NWL4	ENTAU*17	002475	10	0017	
001741		JPAUZ*NWL6 IS AU ZERO	002476	60	2501	
001742		RJP*AIMAT REFER TO INTERMITTANT ROUTINE	002477	76	5000	
001743	NWL5	JP*NWL7 MAIN LINE	002500	34	2502	
001744	NWL6	RJP*AIMAT REFER TO INTERMITTANT ROUTINE	002501	76	5000	
001745	NWL7	ENTAL*T0PCOUNT	002502	12	4606	
001746		CMAL*T0HUNTH0 IS AL 200000	002503	02	4472	
001747		JPEQ*NWL7A YES CONT	002504	61	2510	
001750		JPALZ*NWL8 NO-IS AL ZERO=YES-CONT	002505	61	2511	
001751		ENTAU*17 AU EQ SHIFT COUNT	002506	10	0017	
001752		RJP*AIMAT REFER TO INTERMITTANT ROUTINE	002507	76	5000	
001753	NWL7A	JP*NWL9 MAIN LINE	002510	34	2514	
001754	NWL8	ENTAU*17	002511	10	0017	
001755		JPAUZ*NWL10 IS AU ZERO=YES	002512	60	2515	
001756		RJP*AIMAT REFER TO INTERMITTANT ROUTINE	002513	76	5000	
001757	NWL9	JP*NWL11 MAIN LINE	002514	34	2516	
001760	NWL10	RJP*AIMAT REFER TO INTERMITTANT ROUTINE	002515	76	5000	
001761	NWL11	ENTAL*17 AL EQ SHIFT COUNT	002516	12	0017	
001762		CMAL*TREFIVE IS AL 35	002517	02	4423	
001763		JPEQ*NWL12	002520	61	2524	
001764		CMAL*THIRTEEN IS AL 13	002521	02	4421	
001765		JPEQ*NWL12B YES-CONT	002522	61	2525	
001766		RJP*AIMAT REFERENCE INTERMITTANT ROUTINE	002523	76	5000	
001767	NWL12	JP*NWL12A MAINLINE	002524	34	2530	
001770	NWL12B	ENTAL*1	002525	12	0001	
001771		JPALZ*NWL12C IS AL 0=YES CONT	002526	61	2531	

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1253

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1254		RJP+AIMAT REFERENCE INTERMITTANT ROUTINE	002527	76 5000
	NWL12A	JP+NWL12D MAIN LINE	002530	34 2540
	NWL12C	CL+17	002531	40 0017
		ENTBK+0474	002532	36 0474
		ENTALB+0002	002533	13 0002
CHANGE 7		JPALZ+L0K+2 IS AL ZERO=YES=CONT	002534	61 2536
		JP+NWL12E NO-HAVE ERROR	002535	34 2541
		BJP+L0K-3 ARE ALL L0KS CHK=NO=CONT	002536	73 2533
		RJP+AIMAT REFER TO INTERMITTANT ROUTINE	002537	76 5000
	NWL12D	JP+COUNTDOWN MAIN LINE	002540	34 2542
	NWL12E	RJP+AIMAT REFER TO INTERMITTANT ROUTINE	002541	76 5000
	COUNTDOWN	ENTB+FACTOR B EQ 504477	002542	32 4447
		ENTALK+0076 TEST ALL K COUNTS	002543	70 0076
		STRAL+0002	002544	44 0002
	TAKEOFF	STRB+L0K+3 STORE INST	002545	42 2550
		ENTAU+UNEHUNTH0 AU EQ 100000	002546	10 4471
		ENTALK+00	002547	70 0000
		000000	002550	000000
		ENTAL+0017	002551	12 0017
		CMAL+0002 IS COUNT OK	002552	02 0002
		JPEG+L0K+2 YES=CONT	002553	61 2555
		JP+NWL14 JP TO AIMAT ROUTINE	002554	34 2562
		ENTICR+02	002555	5072 02
		BJP+L0K+2 IS B ZERO=NO=CONT	002556	73 2560
		JP+L0K+3 YES=GO TO END OF TEST	002557	34 2562
		ENTICR+01	002560	5072 01
		JP+NWL15 BYPASS AIMAT ROUTINE	002561	34 2563
	NWL14	RJP+AIMAT REFER TO INTERMITTANT ROUTINE	002562	76 5000
	NWL15	NO=0P	002563	5047 00
		IJP+KAYADDER YES=EXIT	002564	55 2447
		JP+KAYADDER+1 TO RECYCLE KAYADDER	002565	34 2450

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
002031		RESERV*01	002566	000000
002032	SHIFLESS	0*0 ENTRANCE	002567	00 0000
002033		ENTAL*SHIFLESS STR JP TO RECYCLE TEST	002570	12 2567
002034		ADDALK*7776 SUBTRACT 1 FROM ENTRY	002571	71 7776
002035		STRAL*SUTCFS STORAGE IN AIMAT	002572	44 5400
002036		ENTAL*SHIFLESS DISPLAY ENTRY	002573	12 2567
002037		STRAL*INFLT ON C	002574	44 4404
002040		ENTAL*OUTREZER0 AL EQ 400000	002575	12 4473
002041		LSHAL*00 NO SHIFT	002576	5046 00
002042		JPALNG*NWL13 MAIN LINE	002577	67 2603
002043	SHIFFY	JPALZ*NWL14A AL # 0 YES	002600	61 2602
002044		JP*NWL16 NO	002601	34 2604
002045	NWL14A	RJP*AIMAT REFER TO INTERMITTENT ROUTINE	002602	76 5000
002046	NWL13	JP*NWL15A MAIN LINE	002603	34 2613
002047	NWL16	ENTBK*21	002604	36 0021
002050	NWL18	CMALB*CHANL IS MORE THAN 1 BIT SET	002605	03 4452
002051		JPEQ*NWL17 YES ERROR	002606	61 2612
002052		BJP*NWL18	002607	73 2605
002053		RJP*AIMAT REFER TO INTERMITTANT ROUTINE	002610	76 5000
002054	NWL19	JP*SHIFTER MAIN LINE	002611	34 2614
002055	NWL17	RJP*AIMAT REFER TO INTERMITTANT ROUTINE	002612	76 5000
002056	NWL15A	JP*NWL19 MAIN LINE	002613	34 2611
002057	SHIFTER	ENTALK*7777	002614	70 7777
002060		ENTAU*NEGZER0 AU EQ 777777	002615	10 4477
002061		LSHAL*01 CHK CL W=ALL1 FOR CONST ENABLES	002616	5046 01
002062		JPALZ*SHIFNO AL EQ 0? YES=CONT	002617	61 2621
002063		JP*NWL21 NO CONTINUE	002620	34 2622
002064	SHIFNO	RJP*AIMAT REFER TO INTERMITTANT ROUTINE	002621	76 5000
002065	NWL21	CPAL CHK W BIT TO AL FOR CONST 0 IN	002622	5061 00
002066		JPALZ*L0K+2 AL EQ 0? YES=CONT	002623	61 2625
002067		RJP*AIMAT REFER TO INTERMITTANT ROUTINE	002624	76 5000

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TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1255

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1256		002070 ENTAU*POSZER0 AU EQ 000000	002625	10 4475
		002071 LSHAL*01 CHK W BIT T0 AL FOR CONST 1-IN	002626	5046 01
		002072 JPALZ*NWL22 AL EQ 0 YES C0NT	002627	01 2633
		002073 CPAL CHK FOR CONST INHIBIT 0F CL W	002630	5061 00
		002074 JPALZ*NWL23 AL EQ 0 YES	002631	01 2634
		002075 RJP*AIMAT REFERENCE INTERMITTANT ROUTINE	002632	76 5000
	NWL22	002076 JP*NWL24 CONTINUE MAIN LINE	002633	34 2635
	NWL23	002077 RJP*AIMAT REFERENCE INTERMITTANT ROUTINE	002634	76 5000
	NWL24	002100 ENTAU*NEGZER0 AU EQ 777777	002635	10 4477
		002101 LSHAL*01 CHK IF AU BIT 35 GOES T0 W BIT 1	002636	5046 01
		002102 JPALZ*L0K+2 AL EQ 0? YES-C0NT	002637	01 2641
		002103 RJP*AIMAT REFERENCE INTERMITTANT ROUTINE	002640	76 5000
		002104 CPAU CHK IF AL BIT 17 GOES T0 X BIT 1	002641	5062 00
		002105 JPAUZ*L0K+2 AU EQ 0? YES-C0NT	002642	00 2644
		002106 RJP*AIMAT REFERENCE INTERMITTANT ROUTINE	002643	76 5000
		002107 ENTAL*SEPTZER0 AL EQ 707070	002644	12 4653
		002110 LSHAL*11 CHK PROPER SHIFTING	002645	5046 11
		002111 CHAL*ZER0SEPT IS AL 070707	002646	02 4425
		002112 JPEQ*L0K+2 YES-C0NT	002647	01 2651
		002113 RJP*AIMAT REFERENCE INTERMITTANT ROUTINE	002650	76 5000
		002114 ENTAU*NEGZER0 AU EQ 777777	002651	10 4477
		002115 ENTALK*7777	002652	70 7777
		002116 RSHAL*01 CHK W BIT T0 AL FOR CONST 0-IN	002653	5042 01
		002117 CPAL	002654	5061 00
		002120 JPALZ*L0K+2 AL EQ 0? YES-C0NT	002655	01 2657
		002121 RJP*AIMAT REFERENCE INTERMITTANT ROUTINE	002656	76 5000
		002122 ENTALK*00	002657	70 0000
		002123 ENTAU*POSZER0 AU EQ 000000	002660	10 4475
		002124 RSHAL*01 CHK W BIT T0 AL FOR CONST 1-IN	002661	5042 01
		002125 JPALZ*L0K+2 AL EQ 0? YES-C0NT	002662	01 2664
		002126 RJP*AIMAT REFERENCE INTERMITTANT ROUTINE	002663	76 5000

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEONO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0037
002127		ENTAU*NEGZERØ	AL EQ 777777	002664	10	4477
002130		RSHAL*Ø1	CHK IF AU BIT 18 GOES TO W BIT 17	002665	5042	Ø1
002131		JPALZ*LØK+2	AL EQ Ø? YES-CØNT	002666	61	2670
002132		RJP*AIMAT	REFERENCE INTERMITTANT ROUTINE	002667	76	5000
002133		ENTAL*QUTREZERØ	AL EQ 400000	002670	12	4473
002134		RSHAL*10	CHK PROPER SHIFTING	002671	5042	10
002135		CMAL*TSEVTZER	IS AL 777000	002672	02	4430
002136		JPEQ*LØK+2	YES-CØNT	002673	61	2675
002137		RJP*AIMAT	REFERENCE INTERMITTANT ROUTINE	002674	76	5000
002140		ENTAU*NEGZERØ	AU EQ 777777	002675	10	4477
002141		LSHAU*Ø1	CHK X BIT TO AU FOR IN ERRORS	002676	5045	Ø1
002142		CPAU		002677	5062	00
002143		JPAUZ*LØK+2	AU EQ Ø? YES-CØNT	002700	60	2702
002144		RJP*AIMAT	REFERENCE INTERMITTANT ROUTINE	002701	76	5000
002145		LSHAU*Ø1	CHK X BIT TO AU FOR IN ERRORS	002702	5045	Ø1
002146		JPAUZ*LØK+2	AU EQ Ø YES CØNT	002703	60	2705
002147		RJP*AIMAT	REFERENCE INTERMITTANT ROUTINE	002704	76	5000
002150		ENTAU*SEPTZERØ	AU EQ 707070	002705	10	4653
002151		LSHAU*11	CHK PROPER SHIFTING	002706	5045	11
002152		STRAU*ØBINYARD		002707	46	4575
002153		ENTAL*ØBINYARD		002710	12	4575
002154		CMAL*ZERØSEPT	IS AL Ø70707	002711	02	4425
002155		JPEQ*LØK+2	YES-CØNT	002712	61	2714
002156		RJP*AIMAT	REFERENCE INTERMITTANT ROUTINE	002713	76	5000
002157		ENTAU*NEGZERØ	AU EQ 777777	002714	10	4477
002160		RSHAU*Ø1	CHK X BIT TO AU FOR IN ERRORS	002715	5041	Ø1
002161		CPAU		002716	5062	00
002162		JPAUZ*LØK+2	AU EQ Ø? YES-CØNT	002717	60	2721
002163		RJP*AIMAT	REFERENCE INTERMITTANT ROUTINE	002720	76	5000
002164		RSHAU*Ø1	CHK X BIT TO AU FOR IN ERRORS	002721	5041	Ø1

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 TABLE 8-73 PROGRAM LISTING

CHANGE 7

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SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
002165		JPAUZ*L0K+2 AU EQ 0? YES=C0NT	002722	60 2724
002166		RJP*AIMAT REFERENCE INTERMITTANT ROUTINE	002723	76 5000
002167		ENTAU*QUTREZER0 AU EQ 400000	002724	10 4473
002170		RSHAU*10 CHK PROPER SHIFTING	002725	5041 10
002171		STRAU*BINYARD	002726	46 4575
002172		ENTAL*BINYARD	002727	12 4575
002173		CMAL*TSEVTZER IS AL 777000	002730	02 4430
002174		JPEQ*L0K+2 YES=C0NT	002731	61 2733
002175		RJP*AIMAT REFERENCE INTERMITTANT ROUTINE	002732	76 5000
002176		ENTAU*TSEVTZER AU EQ 777000	002733	10 4430
002177		LSHA*01 CHK AL BIT 17 T0 X18-AU 35 T0 W0	002734	5047 01
002200		CMAL*TRANSFER IS AL 776001	002735	02 4446
002201		JPEQ*L0K+2 YES=C0NT	002736	61 2740
002202		RJP*AIMAT REFERENCE INTERMITTANT ROUTINE	002737	76 5000
002203		STRAU*BINYARD	002740	46 4575
002204		ENTAL*BINYARD	002741	12 4575
002205		CMAL*TRANSFER IS AL 776001	002742	02 4446
002206		JPEQ*L0K+2 YES=C0NT	002743	61 2745
002207		RJP*AIMAT REFERENCE INTERMITTANT ROUTINE	002744	76 5000
002210		ENTAU*ZER0SEPT AU EQ 070707	002745	10 4425
002211		ENTAL*ZER0SEPT AL EQ 070707	002746	12 4425
002212		LSHA*03 CHK PROPER SHIFTING	002747	5047 03
002213		CMAL*SEPTZER0 IS AL 707070	002750	02 4653
002214		JPEQ*L0K+2 YES=C0NT	002751	61 2753
002215		RJP*AIMAT REFERENCE INTERMITTANT ROUTINE	002752	76 5000
002216		STRAU*BINYARD	002753	46 4575
002217		ENTAL*BINYARD	002754	12 4575
002220		CMAL*SEPTZER0 IS AL 707070	002755	02 4653
002221		JPEQ*L0K+2 YES=C0NT	002756	61 2760
002222		RJP*AIMAT REFERENCE INTERMITTANT ROUTINE	002757	76 5000
002223		RSHA*03 CHK AU BIT 18 T0 W BIT 17	002760	5043 03

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CHANGE 7

TABLE 8-73 PROGRAM LISTING

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A



SEGN0	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0039
002224		CMAL*ZER0SEPT IS AL 070707	002761	02 4425		
002225		JPEG*L0K+2 YES=CONT	002762	61 2764		
002226		RJP*AIMAT REFERENCE INTERMITTANT ROUTINE	002763	76 5000		
002227		STRAU*BINYARD	002764	46 4575		
002230		ENTAL*BINYARD	002765	12 4575		
002231		CMAL*TRANSIT IS AL 770707	002766	02 4427		
002232		JPEG*L0K+2 YES=G0 TEST B+=1+A/0	002767	61 2771		
002233		RJP*AIMAT REFERENCE INTERMITTANT ROUTINE	002770	76 5000		
002234		ENTAU*SF2 177777	002771	10 3174		
002235		ENTAL*PENNYP 200000	002772	12 3175		
002236	PLUMA	STRAU*TRAP CHK + AND = NETWORK	002773	46 3176		
002237		ENTB*TRAP 177777	002774	32 3176		
002240		BSK*NZR0 PATTERN 777777	002775	56 4432		
002241		JP*PLUMA1 SKIP 0K	002776	34 3001		
002242		RJP*DISPC DISPLAY ENTRY 0N C	002777	76 4374		
002243		JP*NWL25 ERROR TO AIMAT	003000	34 3056		
002244	PLUMA1	STRB*CREEK	003001	42 3177		
002245		CMAL*CREEK IS INCREMENT CORRECT	003002	02 3177		
002246		JPEG*PLUMA2 YES	003003	61 3007		
002247		ENTAU*CREEK NO	003004	10 3177		
002250		RJP*DISPC DISPLAY ENTRY 0N C	003005	76 4374		
002251		JP*NWL26 ERROR TO AIMAT	003006	34 3060		
002252	PLUMA2	BJP*PLUMA3 CHK B EQUAL 0 INPUT PINS	003007	73 3012		
002253		RJP*DISPC DISPLAY ENTRY 0N C	003010	76 4374		
002254		JP*NWL27 ERROR TO AIMAT	003011	34 3062		
002255	PLUMA3	RSHAU*01	003012	5041 01		
002256		RSHAL*01	003013	5042 01		
002257		JPALNZ*PLUMA PATTERNS COMPLETE	003014	63 2773		
002260		ENTAU*W0LP 377777	003015	10 3200		
002261		ENTAL*W0LP 377777	003016	12 3200		
002262	PLUM1A	CPAU 400000	003017	5062 00		

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 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1259

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
002263		STRAU*TRAP	003020	46 3176
002264		ENTB*TRAP 400000	003021	32 3176
002265		BJP*PLUM11 DECREMENT PATTERN	003022	73 3025
002266		RJP*DISPC DISPLAY ENTRY ON C	003023	76 4374
002267		JP*NWL28 ERROR TO AIMAT	003024	34 3064
002270	PLUM11	STRB*CREEK	003025	42 3177
002271		CMAL*CREEK IS DECREMENT CORRECT	003026	02 3177
002272		JPEQ*PLUM12 YES	003027	61 3033
002273		ENTAU*CREEK NO	003030	10 3177
002274		RJP*DISPC DISPLAY ENTRY ON C	003031	76 4374
002275		JP*NWL29 ERROR TO AIMAT	003032	34 3066
002276	PLUM12	CPAU	003033	5062 00
002277		RSHA*01	003034	5043 01
002300		JPAUZ*PLUM13 ARE PATTERNS COMPLETE	003035	60 3037
002301		JP*PLUM1A	003036	34 3017
002302	PLUM13	BSK*HALF INCREMENT 777776	003037	56 3203
002303		STRB*CREEK 777776	003040	42 3177
002304		ENTAL*NEG1P	003041	12 3201
002305		CMAL*CREEK	003042	02 3177
002306		JPEQ*PLUM14	003043	61 3046
002307		RJP*DISPC DISPLAY ENTRY ON C	003044	76 4374
002310		JP*NWL30 ERROR TO AIMAT	003045	34 3070
002311	PLUM14	ENTAL*BEANP AL TO 400000	003046	12 3202
002312		ENTB*WOLF B TO 377777	003047	32 3200
002313		BSK*NZR0 INCREMENT B	003050	56 4432
002314		STRB*TRAP	003051	42 3176
002315		CMAL*TRAP IS PATTERN CORRECT	003052	02 3176
002316		JPEQ*PLUM15 YES	003053	61 3057
002317		RJP*DISPC DISPLAY ENTRY ON C	003054	76 4374
002320		JP*NWL31 ERROR TO AIMAT	003055	34 3072
002321	NWL25	RJP*AIMAT REFER TO INTERMITTANT ROUTINE	003056	76 5000

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEGNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0041
002322	PLUM15	JP*PLUM16 MAIN LINE	003057	34 3061		
002323	NWL26	RJP*AIMAT REFER TO INTERMITTANT ROUTINE	003060	76 5000		
002324	PLUM16	JP*PLUM17 MAIN LINE	003061	34 3063		
002325	NWL27	RJP*AIMAT REFER TO INTERMITTANT ROUTINE	003062	76 5000		
002326	PLUM17	JP*PLUM18 MAIN LINE	003063	34 3065		
002327	NWL28	RJP*AIMAT REFER TO INTERMITTANT ROUTINE	003064	76 5000		
002330	PLUM18	JP*PLUM19 MAIN LINE	003065	34 3067		
002331	NWL29	RJP*AIMAT REFER TO INTERMITTANT ROUTINE	003066	76 5000		
002332	PLUM19	JP*PLUM20 MAIN LINE	003067	34 3071		
002333	NWL30	RJP*AIMAT REFER TO INTERMITTANT ROUTINE	003070	76 5000		
002334	PLUM20	JP*ALLRIGHT MAIN LINE	003071	34 3073		
002335	NWL31	RJP*AIMAT REFER TO INTERMITTANT ROUTINE	003072	76 5000		
002336	ALLRIGHT	N0=0P	003073	5047 00		
002337		IJP*SHIFLESS EXIT	003074	55 2567		
002340		JP*SHIFLESS+1 TO RECYCLE SHIFLESS	003075	34 2570		
002341		RESERV*01	003076	000000		
002342	PICKAPLUM	0*0 ENTRY	003077	00 0000		
002343		ENTAL*PICKAPLUM DISPLAY ENTRY	003100	12 3077		
002344		STRAL*INFLT ON C	003101	44 4404		
002345		ENTAU*SP2 177777	003102	10 3174		
002346		ENTAL*PENNYP 200000	003103	12 3175		
002347	PLUM	STRAU*TRAP CHECK PLUS AND MINUS NETWORK	003104	46 3176		
002350		ENTB*TRAP	003105	32 3176		
002351		BSK*NZR0 PATTERN	003106	56 4432		
002352		JP*L0K+3	003107	34 3112		
002353		RJP*DISPC DISPLAY ENTRY ON C	003110	76 4374		
002354		ST0P*40 ERROR STOP	003111	5056 40		
002355		STRB*CREEK	003112	42 3177		
002356		CMAL*CREEK IS INCREMENT CORRECT?	003113	02 3177		
002357		JPE0*L0K+4	003114	61 3120		
002360		ENTAU*CREEK	003115	10 3177		

TABLE 8-73 PROGRAM LISTING

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

CHANGE 7 8-1261

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1262		RJP*DISPC DISPLAY ENTRY ON C	003116	76 4374
		STOP*40 ERROR STOP	003117	5056 40
		BJP*L0K+3 CHECK B EQUAL ZERO INPUT PINS	003120	73 3123
		RJP*DISPC DISPLAY ENTRY ON C	003121	76 4374
		STOP*40 ERROR STOP	003122	5056 40
CHANGE 7		RSHAU*01	003123	5041 01
		RSHAL*01	003124	5042 01
		JPALNZ*PLUM ARE PATTERNS COMPLETE?	003125	63 3104
		ENTAU*WOLF 377777	003126	10 3200
		ENTAL*WOLF 377777	003127	12 3200
	PLUM1	CPAU	003130	5062 00
		STRAU*TRAP	003131	46 3176
		ENTB*TRAP	003132	32 3176
		BJP*L0K+3 DECREMENT PATTERN	003133	73 3136
		RJP*DISPC DISPLAY ENTRY ON C	003134	76 4374
		STOP*40 ERROR STOP	003135	5056 40
		STRB*CREEK	003136	42 3177
		CMAL*CREEK IS DECREMENT CORRECT	003137	02 3177
		JPEQ*L0K+4	003140	61 3144
		ENTAU*CREEK	003141	10 3177
		RJP*DISPC DISPLAY ENTRY ON C	003142	76 4374
		STOP*40 ERROR STOP	003143	5056 40
		CPAU	003144	5062 00
		RSHA*01	003145	5043 01
		JPAUZ*L0K+2 ARE PATTERNS COMPLETE?	003146	60 3150
		JP*PLUM1	003147	34 3130
		BSK*HALF INCREMENT 777776	003150	56 3203
		STRB*CREEK 777776	003151	42 3177
		ENTAL*NEG1P	003152	12 3201
		CMAL*CREEK	003153	02 3177
		JPEQ*L0K+3	003154	61 3157

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 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0043
002420		RJP*DISPC DISPLAY ENTRY ON C	003155	76 4374		
002421		STOP*40 ERROR STOP	003156	5056 40		
002422		ENTAL*BEANP AL TO 400000	003157	12 3202		
002423		ENTB*WOLF B TO 377777	003160	32 3200		
002424		BSK*NZR0 INCREMENT B	003161	56 4432		
002425		STRB*TRAP	003162	42 3176		
002426		CMAL*TRAP IS PATTERN CORRECT?	003163	02 3176		
002427		JPEQ*L0K+3	003164	61 3167		
002430		RJP*DISPC DISPLAY ENTRY ON C	003165	76 4374		
002431		STOP*40 ERROR STOP	003166	5056 40		
002432		JP*L0K+3	003167	34 3172		
002433		RJP*DISPC DISPLAY ENTRY ON C	003170	76 4374		
002434		STOP*40 ERROR STOP	003171	5056 40		
002435		IJP*PICKAPLUM EXIT	003172	55 3077		
002436		RESERV*01	003173	000000		
002437	SF2	177777	003174	177777		
002440	PENNYP	200000	003175	200000		
002441	TRAP	000000	003176	000000		
002442	CREEK	000000	003177	000000		
002443	WOLF	377777	003200	377777		
002444	NEG1P	777776	003201	777776		
002445	BEANP	400000	003202	400000		
002446	HALF	525252	003203	525252		
002447	ADDSUBAD	0*0 ENTRANCE	003204	00 0000		
002450		ENTAL*ADDSUBAD STR JP TO RECYCLE TEST	003205	12 3204		
002451		ADDALK*7776 SUBTRACT 1 FROM ENTRY	003206	71 7776		
002452		STRAL*SUTCFS STORAGE IN AIMAT	003207	44 5400		
002453		ENTALK*00	003210	70 0000		
002454		ADDAL*NEGZER0 CHK OUTPUTS OF HS-BORROW	003211	14 4477		
002455		REMARK AND DIFF GEN-BORROW ENABLES-				
002456		REMARK INPUTS TO BORROW AND DIFF GEN				

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 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1263

SEGNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1264		STRAL*SCARF STORE RESULT 1	003212	44 4520
		LSHA*22	003213	5047 22
		ENTALK*7777	003214	70 7777
		ADDAL*POSZERO CHK ENABLE INPUTS	003215	14 4475
		STRAL*SCARF+1 STORE RESULT 2	003216	44 4521
CHANGE 7		JPALZ*NWL32 IS AL ZERO=YES=CONT	003217	61 3223
		JPAUZ*NWL33 NO-IS AU ZERO=YES=CONT	003220	60 3227
		ENTAU*SCARF NO=RESULT 1 AND 2 BAD	003221	10 4520
		RJP*AIMAT REFER TO INTERMITTANT ROUTINE	003222	76 5000
	NWL32	JPAUZ*NWL34 IS AU 0=YES=BOTH RESULTS OK	003223	60 3226
		ENTAL*SCARF NO=RESULT 1 BAD	003224	12 4520
		RJP*AIMAT REFER TO INTERMITTANT ROUTINE	003225	76 5000
	NWL34	JP*TOSSUP MAIN LINE	003226	34 3231
	NWL33	ENTAL*SCARF+1 RESULT 2 BAD	003227	12 4521
		RJP*AIMAT REFER TO INTERMITTANT ROUTINE	003230	76 5000
	T0SSUP	ENTAU*NEGZERO	003231	10 4477
		ENTALK*7777	003232	70 7777
		ADDAL*NEGZERO CHECK OUTPUTS OF HS=BORROW	003233	14 4477
		REMARK AND DIFF GEN		
		SF*44	003234	5044 44
		ENTAL*0017 AL EQ SHIFT COUNT	003235	12 0017
		JPALZ*L0K+2 IS AL ZERO=YES=RESULT OK	003236	61 3240
		RJP*AIMAT REFER TO INTERMITTANT ROUTINE	003237	76 5000
		ENTALK*00	003240	70 0000
		ADDAL*POSZERO CHK EACH BIT FOR BORROW GEN	003241	14 4475
		JPALZ*L0K+2 IS AL ZERO=YES=RESULT OK	003242	61 3244
		RJP*AIMAT REFER TO INTERMITTANT ROUTINE	003243	76 5000
		ENTAU*TSEVTZER SET AU TO 777000	003244	10 4430
		ENTAL*SEPTZER SET AL TO 707070	003245	12 4653
		ADDAL*SEPTZER CHK BORROW SECTIONS	003246	14 4653
		LSHAL*02 SHIFT THE RESULT	003247	5046 02

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TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0045
002516		LSHA*03 S0 AL EQ NEG ZERO	003250	5047 03		
002517		LSHAL*03 AND AU EQ POS ZERO	003251	5046 03		
002520		LSHA*03	003252	5047 03		
002521		LSHAL*03	003253	5046 03		
002522		LSHA*03	003254	5047 03		
002523		JPAUZ*L0K+2 IS AU ZERO=YES=CONT	003255	60 3257		
002524		RJP*AIMAT REFER TO INTERMITTANT ROUTINE	003256	76 5000		
002525		ENTAU*NEGZERO	003257	10 4477		
002526		SF*44 CK AL RESULT	003260	5044 44		
002527		ENTAL*0017 AL EQ SHIFT COUNT	003261	12 0017		
002530		JPALZ*L0K+2 IS AL ZERO=YES=RESULT OK	003262	61 3264		
002531		RJP*AIMAT REFER TO INTERMITTANT ROUTINE	003263	76 5000		
002532		ENTAU*TSEVTZER SET AU TO 777000	003264	10 4430		
002533		ENTAL*ZEROSEPT SET AL TO 070707	003265	12 4425		
002534		ADDAL*ZEROSEPT CHK BORROW SECTIONS	003266	14 4425		
002535		LSHAL*05 SHIFT THE RESULT	003267	5046 05		
002536		LSHA*03 S0 AL EQ NEG ZERO	003270	5047 03		
002537		LSHAL*03 AND AU EQ POS ZERO	003271	5046 03		
002540		LSHA*03	003272	5047 03		
002541		LSHAL*03	003273	5046 03		
002542		LSHA*03	003274	5047 03		
002543		JPAUZ*L0K+2 IS AU ZERO=YES=CONT	003275	60 3277		
002544		RJP*AIMAT REFER TO INTERMITTANT ROUTINE	003276	76 5000		
002545		JP*L0K+1	003277	34 3300		
002546		ENTAU*NEGZERO AU EQ 777777	003300	10 4477		
002547		SF*44 CK AL RESULT	003301	5044 44		
002550		ENTAL*0017 AL EQ SHIFT COUNT	003302	12 0017		
002551		JPALZ*L0K+2 IS AL ZERO=YES=RESULT OK	003303	61 3305		
002552		RJP*AIMAT REFER TO INTERMITTANT ROUTINE	003304	76 5000		
002553		ENTAU*TR0ISCING SET AU TO 353535	003305	10 4412		
002554		ENTAL*TR0ISCING SET AL TO 353535	003306	12 4412		

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NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
002555		ADDA*QUTREDEUX ADD TO 424242 424242	003307	20 4414
002556		JPALZ*L0K+2 IS AL ZERO=YES-C0NT	003310	61 3312
002557		RJP*AIMAT REFER TO INTERMITTANT ROUTINE	003311	76 5000
002560		JPAUZ*L0K+2 IS AU ZERO=YES-C0NT	003312	60 3314
002561		RJP*AIMAT REFER TO INTERMITTANT ROUTINE	003313	76 5000
002562		SKPN0V* CL 0VERFLOW DESIGNATOR	003314	5053 00
002563		JP*L0K+1	003315	34 3316
002564		SKP0V DOES IT SKIP	003316	5052 00
002565		SKPN0V DOES IT SKIP	003317	5053 00
002566		RJP*AIMAT REFER TO INTERMITTANT ROUTINE	003320	76 5000
002567		SKPN00*L0K+2	003321	5051 23
002570		RJP*AIMAT REFER TO INTERMITTANT ROUTINE	003322	76 5000
002571		ENTAU*P0SZER0	003323	10 4475
002572		ENTAL*SIXSEPT SET AL TO 677777	003324	12 4445
002573		ENTBK*00	003325	36 0000
002574		ADDAB*UNESEPT ADD TO 177777 377777	003326	21 4410
002575		CMAL*ZER0SEVEN IS AL SUM CORRECT	003327	02 4652
002576		JPEQ*L0K+2 YES-C0NT	003330	61 3332
002577		RJP*AIMAT REFER TO INTERMITTANT ROUTINE	003331	76 5000
002600		LSHA*22	003332	5047 22
002601		CMAL*QUTREZER0 IS AU SUM ZERO	003333	02 4473
002602		JPEQ*L0K+2 YES-C0NT	003334	61 3336
002603		RJP*AIMAT REFER TO INTERMITTANT ROUTINE	003335	76 5000
002604		SKP0V DOES IT SKIP	003336	5052 00
002605		RJP*AIMAT REFER TO INTERMITTANT ROUTINE	003337	76 5000
002606		SKPN0V DOES IT SKIP	003340	5053 00
002607		RJP*AIMAT REFER TO INTERMITTANT ROUTINE	003341	76 5000
002610		SKPNB0*00 CHK IF IT SKIPS	003342	5051 00
002611		JP*CK0VFL CHECK 0VERFLOW CIRCUITRY	003343	34 4720
002612		RJP*AIMAT REFER TO INTERMITTANT ROUTINE	003344	76 5000
002613	CONTINUE	ENTAL*TR0ISCING SET AL TO 353535	003345	12 4412

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NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING



SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0047
002614		SUBALB*TR0ISCING	003346	17	4412	
002615		CMAL*POSZER0 IS SUB CORRECT	003347	02	4475	
002616		JPEQ*L0K+2 YES=CONT	003350	61	3352	
002617		RJP*AIMAT REFER TO INTERMITTANT ROUTINE	003351	76	5000	
002620		ENTAL*QUTREDEUX SET AL TO 424242	003352	12	4414	
002621		SUBAL*QUTREDEUX	003353	16	4414	
002622		CMAL*POSZER0 IS SUB CORRECT	003354	02	4475	
002623		JPEQ*L0K+2 YES=CONT	003355	61	3357	
002624		RJP*AIMAT REFER TO INTERMITTANT ROUTINE	003356	76	5000	
002625		ENTAL*TR0ISCING SET AL TO 353535	003357	12	4412	
002626		ADDALB*QUTREDEUX	003360	15	4414	
002627		CMAL*POSZER0 IS SUM CORRECT	003361	02	4475	
002630		JPEQ*L0K+2 YES=CONT	003362	61	3364	
002631		RJP*AIMAT REFER TO INTERMITTANT ROUTINE	003363	76	5000	
002632		ENTAL*ZER0SEVEN SET AL TO 077777	003364	12	4652	
002633		ENTAU*QUTREZER0 SET AU TO 400000	003365	10	4473	
002634		SUBAB*UNESEPT SUB WITH 177777 377777	003366	23	4410	
002635		CMAL*SEVENZER0	003367	02	4417	
002636		JPEQ*L0K+2 YES=CONT	003370	61	3372	
002637		RJP*AIMAT REFER TO INTERMITTANT ROUTINE	003371	76	5000	
002640		LSHA*22	003372	5047	22	
002641		CMAL*POSZER0 IS AU SUB CORRECT	003373	02	4475	
002642		JPEQ*L0K+2 YES=CONT	003374	61	3376	
002643		RJP*AIMAT REFER TO INTERMITTANT ROUTINE	003375	76	5000	
002644		SUBA*UNESEPT SUB WITH 177777 377777	003376	22	4410	
002645		CMAL*SIXZERONE IS AL 600001	003377	02	4416	
002646		JPEQ*L0K+2 YES=CONT	003400	61	3402	
002647		RJP*AIMAT REFER TO INTERMITTANT ROUTINE	003401	76	5000	
002650		LSHA*22	003402	5047	22	
002651		CMAL*TR0ISZER0 IS AL 300000	003403	02	4451	
002652		JPEQ*L0K+2 YES=CONT	003404	61	3406	

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 TABLE 8-73 PROGRAM LISTING

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SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
002653		RJP*AIMAT REFER TO INTERMITTANT ROUTINE	003405	76 5000
002654		SKPOV*00 CL OVERFLOW DESIGNATOR	003406	5052 00
002655		JP*L0K*1	003407	34 3410
002656		N0=0P	003410	5047 00
002657		IJP*ADDSUBAD EXIT	003411	55 3204
002660		JP*ADDSUBAD+1 TO RECYCLE ADDSUBAD	003412	34 3205
002661		RESERV*01	003413	000000
002662	MUDDIVE	0*0 ENTRANCE	003414	00 0000
002663		ENTALK*MUDDIVE STRE JP TO RECYCLE TEST	003415	12 3414
002664		ADDALK*7776 SUBTRACT 1 FROM ENTRY	003416	71 7776
002665		STRAL*SUTCFS STORAGE IN AIMAT	003417	44 5400
002666		ENTALK*00	003420	70 0000
002667		STRAL*BENERR0R	003421	44 4573
002670		ENTALK*01	003422	70 0001
002671		STRAL*BENC0UNT	003423	44 4574
002672		ENTAL*MULTSEL AL EQ 25 COMBINE	003424	12 4631
002673		STRAL*TRYIT STORE MUL INST	003425	44 3452
002674		ENTICR*03	003426	5072 03
002675		ENT0K*23	003427	36 0023
002676		ENTICR*04	003430	5072 04
002677		ENT0K*01	003431	36 0001
002700		ENTICR*05	003432	5072 05
002701		ENT0K*07	003433	36 0007
002702		ENTAL*G0UP	003434	12 4443
002703		STRAL*GROUP	003435	44 4522
002704		ENTAL*G0UP2	003436	12 4444
002705		STRAL*COMBINE	003437	44 4524
002706		ENTAL*G0UP3	003440	12 4441
002707		STRAL*COMBINE+1	003441	44 4525
002710	SECONDS	ENTICR*01	003442	5072 01
002711		ENT0K*01	003443	36 0001

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NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEGN0	LABEL	STATEMENT	ADDRESS	INSTRUCT
002712	REDUE	ENTICR*02	003444	5072 02
002713		ENTBK*01	003445	36 0001
002714	WATCHIT	ENTICR*01	003446	5072 01
002715		ENTAU*GROUP VAR PATS TO CHECK INST	003447	11 4522
002716		ENTALB*GROUP VAR PATS TO CHECK INST	003450	13 4522
002717		ENTICR*02 MUL AND DIV INSTS CHECKED	003451	5072 02
002720	TRYIT	000000	003452	000000
002721		ENTICR*03	003453	5072 03
002722		CMALB*TESTALL IS AL RESULT OK	003454	03 4474
002723		JPEQ*L0K+2 YES-C0NT	003455	61 3457
002724		JP*L0K+6 NO-RECORD ERROR	003456	34 3464
002725		BJP*L0K+2 IS B ZERO NO-C0NT	003457	73 3461
002726		JP*COMMAND YES-CHECK REMAINING INSTS	003460	34 3505
002727		LSHA*22 CHECK AU RESULT	003461	5047 22
002730		CMALB*TESTALL IS AU RESULT OK	003462	03 4474
002731		JPEQ*L0K+5 YES C0NT	003463	61 3470
002732		ENTAL*BEERROR NO-RECORD ERROR	003464	12 4573
002733		SLSET*BEENC0UNT SET BIT POS ERROR	003465	51 4574
002734		LSHAL*01	003466	5046 01
002735		STRAL*BEERROR STORE ERROR COUNT	003467	44 4573
002736		BJP*L0K+2 DECREMENT B	003470	73 3472
002737		JP*DEMAND	003471	34 3520
002740		ENTICR*05	003472	5072 05
002741		BJP*L0K+2	003473	73 3475
002742		JP*COMMAND	003474	34 3505
002743		ENTICR*02	003475	5072 02
002744		BJP*WATCHIT IS B ZERO-NO-C0NT	003476	73 3446
002745		ENTBK*01 YES-CHANGE B	003477	36 0001
002746		ENTICR*01	003500	5072 01
002747		BJP*WATCHIT IS B ZERO-NO-C0NT	003501	73 3446
002750		ENTAL*DIVSEL YES-CHECK DIV INST	003502	12 4632

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NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1270		002751 STRAL*TRYIT STORE 27 COMBINE INST	003503	44 3452
		002752 JP*SECONDS	003504	34 3442
	COMMAND	002753 ENTICR*04	003505	5072 04
		002754 BJP*L0K+2	003506	73 3510
		002755 JP*DEMAND	003507	34 3520
CHANGE 7		002756 ENTALK*7777	003510	70 7777
		002757 STRAL*GROUP	003511	44 4522
		002760 STRAL*COMBINE+1	003512	44 4525
		002761 ENTALK*00	003513	70 0000
		002762 STRAL*COMBINE	003514	44 4524
		002763 ENTICR*05	003515	5072 05
		002764 ENTBK*01	003516	36 0001
		002765 JP*REDUE	003517	34 3444
	DEMAND	002766 ENTAL*BENERROR AL EQ ERROR COUNT	003520	12 4573
		002767 JPALZ*L0K+2 IS AL ZERO=YES-C0NT	003521	61 3523
		002770 RJP*AIMAT REFER TO INTERMITTANT ROUTINE	003522	76 5000
		002771 ENTBK*01	003523	36 0001
		002772 ENTAUB*ROUND	003524	11 4526
		002773 ENTALK*70	003525	70 0070
		002774 RND CHECK RND INST	003526	5060 00
		002775 CMALB*KN0CK0UT IS RESULT 0K	003527	03 4530
		002776 JPEQ*L0K+2 YES-C0NT	003530	61 3532
		002777 JP*NWL35 ERROR TO AIMAT	003531	34 3534
		003000 BJP*L0K-6 ARE ALL PATS CHK-N0-C0NT	003532	73 3524
		003001 JP*NWL36 MAIN LINE	003533	34 3535
	NWL35	003002 RJP*AIMAT REFER TO INTERMITTANT ROUTINE	003534	76 5000
	NWL36	003003 ENTALK*03 CHK NEW INSTRS	003535	70 0003
		003004 MULAL*ZER0DEUX MUL BY 000002	003536	24 4453
		003005 CMAL*ZER0SIX IS RESULT 0K	003537	02 4647
		003006 JPEQ*L0K+2 YES-C0NT	003540	61 3542
		003007 RJP*AIMAT REFER TO INTERMITTANT ROUTINE	003541	76 5000

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0051
003010		ENTAU*ZERODEUX AU EQ 000002	003542	10 4453		
003011		ENTAU*ZEROSIX AL EQ 000006	003543	12 4647		
003012		DIVA*ZERODEUX DIV BY 000002	003544	26 4453		
003013		CMAL*NEGZER0 IS AL RESULT 0K	003545	02 4477		
003014		JPEQ*L0K+2 YES=CONT	003546	61 3550		
003015		RJP*AIMAT REFER TO INTERMITTANT ROUTINE	003547	76 5000		
003016		LSHA*22	003550	5047 22		
003017		CMAL*CHANL+3 IS AU RESULT 0K	003551	02 4455		
003020		JPEQ*L0K+2 YES=GO TO END OF TEST	003552	61 3554		
003021		RJP*AIMAT REFER TO INTERMITTANT ROUTINE	003553	76 5000		
003022		N0=0P	003554	5047 00		
003023		IJP*MUDDIVE EXIT	003555	55 3414		
003024		JP*MUDDIVE+1 TO RECYCLE MUDDIVE	003556	54 3415		
003025		RESERV*01	003557	000000		
003026	PARITY	0*0	003560	00 0000		
003027		ENTAL*PARITY STORE JP TO RECYCLE TEST	003561	12 3560		
003030		ADDALK*7776 SUBTRACT 1 FROM ENTRY	003562	71 7776		
003031		STRAL*SUTCPS STORAGE IN AIMAT	003563	44 3400		
003032		CL*EIN	003564	40 4600		
003033		CL*ZWEI	003565	40 4610		
003034		ENTICR*1	003566	5072 01		
003035		ENTBK*15	003567	56 0015		
003036		ENTAU*NZR0	003570	10 4432		
003037	ERSTE	ENTALB*EVEN EVEN PATTERNS	003571	13 4540		
003040		SKPEVN NO ERROR	003572	5055 00		
003041		JP*L0K+3 ERROR DETECTED	003573	54 3576		
003042		ENTAL*EIN	003574	12 4600		
003043		JP*L0K+3	003575	54 3600		
003044		ENTAL*EIN	003576	12 4600		
003045		ADDALK*1 SET BIT FOR ERROR	003577	71 0001		
003046		LSHAL*1	003600	5046 01		

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 TABLE 8-73 PROGRAM LISTING

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CHANGE 7

SEGNO	LABEL	STATEMENT	ADDRESS	PAGE	INSTRUCT	0052
003047		STRAL*EIN	003601	44	4600	
003050		BJP*ERSTE	003602	73	3571	
003051		ENTBK*14	003603	36	0014	
003052	ZWEITE	ENTALB*C0DD ODD PATTERNS	003604	13	4556	
003053		SKP0DD NO ERROR	003605	5054	00	
003054		JP*L0K+3 ERROR DETECTED	003606	34	3611	
003055		ENTAL*ZWEI	003607	12	4610	
003056		JP*L0K+3 NO ERROR	003610	34	3613	
003057		ENTAL*ZWEI	003611	12	4610	
003060		ADDALK*1 SET BIT FOR ERROR	003612	71	0001	
003061		LSHAL*1	003613	5046	01	
003062		STRAL*ZWEI	003614	44	4610	
003063		BJP*ZWEITE	003615	73	3604	
003064		ENTAL*EIN	003616	12	4600	
003065		ENTAU*ZWEI	003617	10	4610	
003066		JPALNZ*L0K+3 EVEN ERRORS	003620	63	3623	
003067		JPAUNZ*L0K+2 ODD ERRORS	003621	62	3623	
003070		JP*L0K+2	003622	34	3624	
003071		RJP*AIMAT REFER TO INTERMITTANT ROUTINE	003623	76	5000	
003072		NO-OP	003624	5047	00	
003073		IJP*PARITY EXIT	003625	55	3560	
003074		JP*PARITY+1 TO RECYCLE PARITY	003626	34	3561	
003075	NWLSHF	RJP*SHIFLESS	003627	76	2567	
003076		JP*NWL1	003630	34	4707	
003077	END1	STOP*40 ERROR STOP 3.13.1	004350	5056	40	
003100	END2	STOP*40 ERROR STOP 3.13.2	004351	5056	40	
003101	END3	STOP*40 ERROR STOP 3.13.3	004352	5056	40	
003102	END4	STOP*40 ERROR STOP 3.13.4	004353	5056	40	
003103	AFLT	RJP*AFLT+1 FAULT ROUTINE JP	004361	76	4362	
003104		0*0 ENTRY AND (P<	004362	00	0000	
003105		ENTAL*INFLT INSURE PROPER	004363	12	4404	

TABLE 8-73 PROGRAM LISTING

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

SEGN0	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0053
003106		STRAL*INFLT+1 C DISPLAY	004364	44 4405		
003107		ENTAL*AFLT+1 FLT ADDR IN AL	004365	12 4362		
003110		ADDALK*7776 SUBTRACT 1	004366	71 7776		
003111		STRADR*L0K+1 RESTART TO DISPLAY	004367	74 4370		
003112		ENTAU*ADR CONTENTS OF FAULTING ADDR	004370	10 0000		
003113		RJP*DISPC	004371	76 4374		
003114		CL*INFLT CLEAR SUSP INST STORAGE	004372	40 4404		
003115		STOP*40 ERROR STOP	004373	5056 40		
003116	DISPC	0*0 ENTRY	004374	00 0000		
003117		OUT*00 OUT ON CHAN 0	004375	5012 00		
003120		0*INFLT+1 TO DISPLAY	004376	004405		
003121		0*INFLT IFAULT	004377	004404		
003122		OUTSTP*00 AVOID FALSE DISPLAY	004400	5016 00		
003123		OUTOV*00 ODA TO DISPLAY ON C	004401	5026 00		
003124		SRSM*00 SET RESUME	004402	5020 00		
003125		IJP*DISPC EXIT	004403	55 4374		
003126	INFLT	0*0 SUSPECT FLT INST STORAGE	004404	00 0000		
003127		0*0	004405	00 0000		
003130		DBLSET				
003131	TROISSEPT	377777	004406	377777		
003132		177777	004407	177777		
003133	UNESEPT	177777	004410	177777		
003134		377777	004411	377777		
003135	TROISCING	353535	004412	353535		
003136		353535	004413	353535		
003137	QUTREDEUX	424242	004414	424242		
003140		424242	004415	424242		
003141	SIXZERUNE	600001	004416	600001		
003142	SEVENZERO	700000	004417	700000		
003143	ZEROCING	000005	004420	000005		
003144	THIRTEEN	000013	004421	000013		

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 TABLE 8-73 PROGRAM LISTING

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SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
003145	THIRTY	000030	004422	000030
003146	TREFIVE	000035	004423	000035
003147	THIFIVE	350000	004424	350000
003150	ZER0SEPT	070707	004425	070707
003151	DEAN	707070	004426	707070
003152	TRANSIT	770707	004427	770707
003153	TSEVTZER	777000	004430	777000
003154	TEAN	070007	004431	070007
003155	NZRO	777777	004432	777777
003156	BEEREG	507210	004433	507210
003157	SEVENT	777707	004434	777707
003160	STACKED	557775	004435	557775
003161	MAZE	003777	004436	003777
003162	TR0ISDEUX	323232	004437	323232
003163	QUTRECINO	454545	004440	454545
003164	GR0UP3	611116	004441	611116
003165	NEG1	477777	004442	477777
003166	GR0UP	544445	004443	544445
003167	GR0UP2	232232	004444	232232
003170	SIXSEPT	677777	004445	677777
003171	TRANSFER	776001	004446	776001
003172	FACTOR	504477	004447	504477
003173	SEVENN	000007	004450	000007
003174	TR0ISZERO	300000	004451	300000
003175	CHANL	000001	004452	000001
003176	ZER0DEUX	000002	004453	000002
003177		000004	004454	000004
003200		000010	004455	000010
003201		000020	004456	000020
003202		000040	004457	000040
003203		000100	004460	000100

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TABLE 8-73 PROGRAM LISTING



SEGNO	LABEL	STATEMENT	PAGE ADDRESS	0055 INSTRUCT
003204		000200	004461	000200
003205		000400	004462	000400
003206		001000	004463	001000
003207		002000	004464	002000
003210		004000	004465	004000
003211		010000	004466	010000
003212		020000	004467	020000
003213		040000	004470	040000
003214	ONEHUNTH0	100000	004471	100000
003215	TWOHUNTH0	200000	004472	200000
003216	OUTREZER0	400000	004473	400000
003217	TESTALL	000000	004474	000000
003220	POSZER0	000000	004475	000000
003221	PAR50	000000	004476	000000
003222	NEGZER0	777777	004477	777777
003223		671471	004500	671471
003224		002715	004501	002715
003225		641464	004502	641464
003226		611677	004503	611677
003227		223617	004504	223617
003230		457271	004505	457271
003231		160477	004506	160477
003232		166105	004507	166105
003233		721121	004510	721121
003234		534333	004511	534333
003235		044047	004512	044047
003236		537272	004513	537272
003237		033432	004514	033432
003240		611212	004515	611212
003241		752616	004516	752616
003242		527366	004517	527366

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 TABLE 8-73 PROGRAM LISTING

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SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
003243	SCARF	000000	004520	000000
003244		000000	004521	000000
003245	GROUP	544445	004522	544445
003246		133331	004523	133331
003247	COMBINE	232232	004524	232232
003250		011116	004525	011116
003251	ROUND	000002	004526	000002
003252		700002	004527	700002
003253	KNOCOUT	000002	004530	000002
003254		700001	004531	700001
003255	TW0SEV	777777	004532	777777
003256		777777	004533	777777
003257	ACKUP	017774	004534	017774
003260		027774	004535	027774
003261		047774	004536	047774
003262		107774	004537	107774
003263	EVEN	146314	004540	146314
003264		722442	004541	722442
003265		035237	004542	035237
003266		251764	004543	251764
003267		546403	004544	546403
003270		220151	004545	220151
003271		737270	004546	737270
003272		153724	004547	153724
003273		000011	004500	000011
003274		175563	004551	175563
003275		446314	004552	446314
003276		722463	004553	722463
003277		211744	004554	211744
003300		177236	004555	177236
003301	C00D	254304	004556	254304

TABLE 8-73 PROGRAM LISTING

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
003302		167463	004557	167463
003303		522150	004560	522150
003304		201705	004561	201705
003305		675077	004562	675077
003306		146200	004563	146200
003307		712536	004564	712536
003310		425763	004565	425763
003311		171050	004566	171050
003312		606315	004567	606315
003313		270626	004570	270626
003314		117443	004571	117443
003315		742170	004572	742170
003316	BENERR0R	000000	004573	000000
003317	BENC0UNT	000000	004574	000000
003320	BINYARD	000000	004575	000000
003321	BEL0NG	000000	004576	000000
003322	COLLECT	000000	004577	000000
003323	FIN	000000	004600	000000
003324	STACKUP	000000	004601	000000
003325	STR0LL	000000	004602	000000
003326	STAHL	000000	004603	000000
003327	SROBY	000000	004604	000000
003330	T0AX	000000	004605	000000
003331	T0PC0UNT	000000	004606	000000
003332	WASTE	000000	004607	000000
003333	ZWEI	000000	004610	000000
003334	ALL0N	00*BIEN	004611	00 2256
003335	TRES	00*SWAI+5	004612	00 2255
003336		00*PORTE	004613	00 2266
003337	ROUGE	00*PORTE-1	004614	00 2265
003340	REPLEM	34*L0K+5	004615	34 4622

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1277

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
003341	ISAU	00*KUP	004616	00 1252
003342	WASUP	000000	004617	000000
003343	DUNLUP	000000	004620	000000
003344	STOPIT	505640	004621	505640
003345	BEEMAX	120011	004622	120011
003346	PEAPLUS	00*SMEAL-1	004623	00 1240
003347	D0SUP	RJP*SUPEREG	004624	76 2306
003350	UNSTACK	00*BANDIT	004625	00 2423
003351	REFRAD	34*REJECTS	004626	34 2414
003352		9KP*00	004627	5050 00
003353	STARTADD	00*CONTRASI	004630	00 0706
003354	MULTSEL	25*COMBINE	004631	25 4524
003355	DIVSEL	27*COMBINE	004632	27 4524
003356	ELM	12*POSZER0	004633	12 4475
003357	ELM1	34*ELM2	004634	34 1261
003360	COMBACK	34*CHEZ-3	004635	34 0745
003361	WEEDOUT2	34*CHEZ+1	004636	34 0751
003362	WEEDOUT3	34*NWL1	004637	34 4707
003363	WEEDOUT4	34*CHEZ1+1	004640	34 0766
003364	COMBACK1	34*CHEZ1-3	004641	34 0762
003365	WEEDOUT5	34*CHEZ1+4	004642	34 0771
003366	WEEDOUT1	34*CHEZ1+7	004643	34 0774
003367	WEEDOUT	34*CHEZ+6	004644	34 0756
003370	COMBACK2	34*CHEZ2	004645	34 0777
003371	ZERONE	000001	004646	000001
003372	ZEROSIX	000006	004647	000006
003373		000004	004650	000004
003374		000004	004651	000004
003375	ZER0SEVEN	077777	004652	077777
003376	SEPTZER0	707070	004653	707070
003377		050005	004654	050005

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
			PAGE	0059
003400		757577	004655	757577
003401		333333	004656	333333
003402		444444	004657	444444
003403	DUALSEV	000077	004660	000077
003404	SEVSEV	000077	004661	000077
003405	ZEROTR018	000003	004662	000003
003406		000003	004663	000003
003407		000003	004664	000003
003410		000003	004665	000003
003411	TZERFSEV	007777	004666	007777
003412	B0M20	770000	004667	770000
003413		123456	004670	123456
003414		000703	004671	000703
003415		000303	004672	000303
003416		000503	004673	000503
003417		000203	004674	000203
003420		654321	004675	654321
003421		123456	004676	123456
003422		654321	004677	654321
003423	000	000001	004700	000001
003424	001	000002	004701	000002
003425	002	000004	004702	000004
003426	003	000010	004703	000010
003427	004	000020	004704	000020
003430	005	000040	004705	000040
003431	006	000100	004706	000100
003432	NWL1	ENTAL*ZER0QUTRE 77 FAULT???	004707	12 4712
003433		STRAL*STAHL	004710	44 4003
003434		JP*00FINDS	004711	34 0776
003435	ZER0QUTRE	4*	004712	000004
003436	NWL2	ENTALK*7 00,01,77 ALL DID NOT FAULT	004713	70 0007

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1279

SEGNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0060
8-1280		STRAL*STAHL	004714	44 4603		
		CL*SPINTE CLEAR ERROR FLAG	004715	40 1101		
		JP*FLTISOL+3 GO BACK	004716	34 1013		
	SAVDTA	000000	004717	000000		
	CKOVFL	STRAU*SAVDTA SAVE AU	004720	46 4717		
		ENTAL*UNSEPT+1 CHECK FOR OVERFLOW AFTER	004721	12 4411		
		ADDALK*3777 CAUSING OVERFLOW WITH ADDALK INST	004722	71 3777		
		SKPOV	004723	5052 00		
		RJP*AIMAT	004724	76 5000		
		ENTAL*TR0ISCING CHECK FOR OVERFLOW AFTER	004725	12 4412		
		ENTAU*TR0ISCING CAUSING OVERFLOW WITH	004726	10 4412		
		DIVA*ZEROCING DIVA INST	004727	26 4420		
		SKPOV	004730	5052 00		
		RJP*AIMAT	004731	76 5000		
		ENTAL*QUTRECING CHECK FOR OVERFLOW AFTER	004732	12 4440		
		ADDAL*QUTRECING CAUSING OVERFLOW WITH	004733	14 4440		
		SKPOV ADDAL INST	004734	5052 00		
		RJP*AIMAT	004735	76 5000		
		ENTAU*POSZERO CHECK FOR OVERFLOW AFTER	004736	10 4475		
		ENTAL*SIXSEPT NOT CAUSING OVERFLOW WITH	004737	12 4445		
		ADDA*ZERODEUX+1 ADDA INST	004740	20 4454		
		SKPN0V	004741	5053 00		
		RJP*AIMAT	004742	76 5000		
		ENTAL*QUTRECING CHECK FOR OVERFLOW AFTER	004743	12 4440		
		ADDAL*TSEVTZER NOT CAUSING OVERFLOW WITH	004744	14 4430		
		SKPN0V ADDAL INST	004745	5053 00		
		RJP*AIMAT	004746	76 5000		
		ENTAL*TR0ISCING CHECK FOR OVERFLOW AFTER	004747	12 4412		
		ENTAU*ZEROCING NOT CAUSING OVERFLOW WITH	004750	10 4420		
		DIVA*TR0ISCING DIVA INST	004751	26 4412		
		SKPN0V	004752	5053 00		

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CHANGE 7

TABLE 8-73 PROGRAM LISTING

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

SEGN0	LABEL	STATEMENT	ADDRESS	PAGE	INSTRUCT	0061
003476		RJP*AIMAT	004753	76	5000	
003477		ENTAU*SAVDTA RESTORE AU	004754	10	4717	
003500		JP*CONTINUE RETURN	004755	34	3345	
003501	*					
003502	*					
003503	RESTART	ENTSR*0 RESTART DIAGNOSTIC PROGRAM	005600	5073	00	
003504		ENTAL*INSTK1 IS PROGRAM IN BANK 1	005601	12	5360	
003505		JPALZ*CLADFL JUMP IF N0	005602	61	5611	
003506		ENTAL*SAVEP2 FAILING ADDRESS + 1	005603	12	5336	
003507		SLSET*K40000 SET ADDRESS TO BANK 1	005604	51	5715	
003510		STRAL*SAVEP2	005605	44	5335	
003511		ENTAL*SAVEP6 FAILING ADDRESS	005606	12	5355	
003512		SLSET*K40000 SET ADDRESS TO BANK 1	005607	51	5715	
003513		STRAL*SAVEP6	005610	44	5355	
003514	CLADFL	CL*CONDET REINITIALIZE ADDRESSES AND FLAGS	005611	40	5354	
003515		CL*PASS1P	005612	40	5371	
003516		CL*PAS1AU	005613	40	5372	
003517		CL*PAS1AL	005614	40	5373	
003520		CL*PASS1B	005615	40	5374	
003521		CL*FIVENP	005616	40	5350	
003522		CL*SUTCFS	005617	40	5400	
003523		CL*CYCSUB	005620	40	5401	
003524		CL*SAVEP	005621	40	5334	
003525		CL*SAVEP3	005622	40	5336	
003526		CL*SAVEP4	005623	40	5337	
003527		CL*SAVEP5	005624	40	5340	
003530		CL*N0DET	005625	40	5376	
003531		CL*INSTK1	005626	40	5360	
003532		CL*STRRUN	005627	40	5361	
003533		CL*INDEX	005630	40	5363	
003534		CL*STRSTP	005631	40	5365	

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NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEONO	LABEL	STATEMENT	ADDRESS	INSTRUCT
003535		ENTSR*12	005632	5073 12
003536		CL*SAVENT	005633	40 5015
003537		ENTSR*0	005634	5073 00
003540		ENTAL*SAVAI9 JPALZ*AIMA10	005635	12 5720
003541		STRAL*AIMAT9 RESTORE AIMAT9	005636	44 5040
003542		ENTAL*SAVRU9 JPALZ*RUNE10	005637	12 5721
003543		STRAL*RUNEN9 RESTORE RUNEN9	005640	44 5300
003544		ENTAL*DETECT HAS A DETECT OCCURRED	005641	12 5352
003545		JPALZ*L0K+7 JUMP IF N0	005642	01 5051
003546		ENTICR*4	005643	5072 04
003547		ENTB*SAVEP2 FAILING ADDRESS + 1	005644	32 5335
003550		ENTAL*SAVINS INSTRUCTION AT FAIL ADDR + 1	005645	12 5716
003551		ENTSR*10 REFERENCE STACK 1	005646	5073 10
003552		STRALB*0 RESTORE INSTRUCTION	005647	45 0000
003553		ENTSR*0 REF CURRENT STACK	005650	5073 00
003554		CL*DETECT REINITIALIZE ADDRESSES AND FLAGS	005651	40 5352
003555		CL*SAVEP2	005652	40 5335
003556		ENTAL*FSTPJP WAS JUMP/STOP INSTRUCTION STORED	005653	12 5710
003557		JPALZ*L0K+7 JUMP IF N0	005654	01 5053
003560		ENTICR*4	005655	5072 04
003561		ENTB*SAVEP6 FAILING ADDRESS	005656	32 5355
003562		ENTAL*SAVIN2 INSTRUCTION AT FAIL ADDR	005657	12 5717
003563		ENTSR*10 REFERENCE STACK 1	005660	5073 10
003564		STRALB*0 RESTORE INSTRUCTION	005661	45 0000
003565		ENTSR*0 REF CURRENT STACK	005662	5073 00
003566		CL*SAVEP6 REINITIALIZE ADDRESSES AND FLAGS	005663	40 5355
003567		CL*FSTPJP	005664	40 5710
003570	RECYCLE2	STRSR*STORESR REINITIALIZE AL, AU, AND	005665	75 5706
003571		ENTAU*K27400	005666	10 5714
003572		ENTAL*L0K+2 STORE RIL IN EXTERNAL	005667	12 5071
003573		STRAL*100 INTERRUPT ENTRANCE ADDRESS	005670	44 0100

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NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING



SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
003574		RIL*00	005671	5030 00
003575		SKPPIN*0 IS EF ACTIVE FLIPFLAP SET	005672	5023 00
003576		JP*STORESR=2 YES, DO NOT OUTPUT 151 IN CE	005673	34 5704
003577		EXF*0	005674	5013 00
003600		0*K151	005675	005713
003601		0*K151	005676	005713
003602		EXFOV*0	005677	5027 00
003603		EXFSTP*0	005700	5017 00
003604		ENTALK*1 DELAY	005701	70 0001
003605		LSHAL*1	005702	5046 01
003606		JPALP*L0K=1	005703	65 5702
003607		EXFSTP*13 FOR MAG TAPE LOAD	005704	5017 13
003610		ENTALK*706 CE REGISTERS	005705	70 0706
003611	STORESR	ENTSR*0	005706	5073 00
003612		JP*CONTBASI RETURN TO BEGINNING	005707	34 0706
003613	FSTPJP	000000	005710	000000
003614	JPADRS	045600 RESTART IN BANK 1	005711	045600
003615	JPINS	IJP*JPADRS	005712	55 5711
003616	K151	151	005713	000151
003617	K27400	27400	005714	027400
003620	K40000	040000	005715	040000
003621	SAVINS	000000	005716	000000
003622	SAVIN2	000000	005717	000000
003623	SAVAI9	JPALZ*AIMA10	005720	61 5041
003624	SAVRU9	JPALZ*RUNE10	005721	61 5301
003625	TEMP	000000	005722	000000
003626	*			
003627	*			
003630		REMARK*ZPAC PT LOADER MODIFIED		
003631		REMARK*ACCEPTS MULTIPLE ALLOCS		
003632	ZPAC	STOP*40	005777	5056 40

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NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

ADDRESS INSTRUCT

SEQNO LABEL STATEMENT

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003633		JP*STRT		006000	34	6001
003634	STRT	RJP*MTEXEC		006001	76	6004
003635		STOP*40		006002	5056	40
003636		JP*STRT		006003	34	6001
003637	MTEXEC	0*0		006004	00	0000

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003640		SIL*0		006005	5034	00
003641		STRAL*ALSAVE	SAVE BEGINNING ADDRESS	006006	44	7057
003642		STRAU*AUSAVC	SAVE ENDING ADDRESS	006007	46	7060
003643		STRSR*BLSAVE		006010	75	7061
003644		ENTAL*BLSAVE		006011	12	7061
003645		LSHA*16		006012	5047	16
003646		LSHAL*1		006013	5046	01
003647		LSHA*21		006014	5047	21

003650		ENTAL*K0		006015	12	7111
003651		LSHA*4		006016	5047	04
003652		STRAL*BLSAVE		006017	44	7061
003653		STRICR*RCODE	SAVE ROUTINE CODE	006020	72	7062
003654		ENTAL*RCODE		006021	12	7062
003655		CMAL*K10		006022	02	7126
003656		JPEQ*PTLOAD		006023	61	6045
003657		CMAL*K1		006024	02	7064

003660		JPEQ*PTDUMP	PAPER TAPE DUMP	006025	61	6176
003661		CMAL*K2		006026	02	7065
003662		JPEQ*MTLOAD	MAG TAPE LOAD	006027	61	6275
003663		CMAL*K3		006030	02	7066
003664		JPEQ*MTDUMP	MAG TAPE DUMP	006031	61	6402
003665		CMAL*K4		006032	02	7067
003666		JPEQ*STD18	STANDARD 1218 MODE BUFFER LIMITS	006033	61	7244
003667		CMAL*K5		006034	02	7070

003670		JPEQ*CHACHG	CHANNEL CHANGER	006035	61	6773
003671		CMAL*K6		006036	02	7071

TABLE 8-73 PROGRAM LISTING

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

SEQNO	LABEL	STATEMENT	PAGE	0065
			ADDRESS	INSTRUCT
003672		JPEQ*F0RSEL    F0RMAT SELECTION	006037	61 7025
003673		CMAL*K7	006040	02 7072
003674		JPEQ*IANDC    INSPECT AND CHANGE	006041	61 6546
003675	BADF0R	ENTAL*ALSAVE	006042	12 7057
003676		ENTAU*AUSAVC	006043	10 7060
003677	D0NE	IJP*MTEXEC	006044	55 6004
003700	PTLOAD	ENTSR*0	006045	5073 00
003701		EXP*PTCHAN    TURN ON PRINTER	006046	5013 00
003702		0*ENABLE	006047	007073
003703		0*ENABLE	006050	007073
003704	IN76	IN*PTCHAN    INPUT 76 FRAME	006051	5011 00
003705		0*FRAME	006052	007074
003706		0*FRAME	006053	007074
003707		SKPIIN*PTCHAN	006054	5021 00
003710		JP*L0K=1	006055	34 6054
003711		ENTAL*FRAME	006056	12 7074
003712		JPALZ*IN76    DID IT READ THE FIRST FRAME	006057	61 6051
003713		CMAL*K76    YES	006060	02 7104
003714		JPEQ*L0K+2    IS IT A 76	006061	61 6063
003715		JP*PERR0R    N0	006062	34 6115
003716	TW0WD5	ENTICR*3	006063	5072 03
003717		ENTBK*0	006064	36 0000
003720		RJP*READ5	006065	76 6155
003721		STRAU*01	006066	46 0001
003722		STRAU*05	006067	46 0005
003723		STRAL*02	006070	44 0002
003724		STRAL*06	006071	44 0006
003725	INPR0G	ENTICR*1	006072	5072 01
003726		RJP*READ3    INPUT ONE WORD	006073	76 6125
003727		STRALB*0    ST0RE WD	006074	45 0000
003730		BSK*06	006075	56 0006

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

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SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
003731		JP*L0K=3 NO	006076	34 6073
003732		RJP*READ3 READ CHECK SUM	006077	76 6125
003733		STRAL*CSUM SAVE CHECK SUM	006100	44 7301
003734	CKSUM	ENTICR*5	006101	5072 05
003735		ENTALK*0	006102	70 0000
003736		ADDALB*0 COMPUTE CKSUM	006103	15 0000
003737		BSK*2	006104	56 0002
003740		JP*L0K=2 NO	006105	34 6103
003741		SUBAL*CSUM	006106	16 7301
003742		JPALNZ*PERR0R GO TO PERR0R ON BAD LOAD	006107	63 6115
003743		RJP*READ3 LOAD OK = CHECK FOR MORE	006110	76 6125
003744		JPALZ*LOADOK DONE	006111	61 6121
003745		SUBAL*K76 MORE = CHECK FOR 76 CODE	006112	16 7104
003746		JPALZ*TWOWDS LOAD NEXT RECORD	006113	61 6063
003747		ST0P*40 ERROR ST0P = TAPE BAD BUT NOT A	006114	5056 40
003750		REMARK* CHECK SUM ERROR		
003751	PERR0R	RJP*PT0FF	006115	76 6147
003752		ENTAU*K66	006116	10 7230
003753		LSHA*22	006117	5047 22
003754		JP*DONE	006120	34 6044
003755	LOADOK	RJP*PT0FF	006121	76 6147
003756		ENTAU*K0	006122	10 7111
003757		ENTAL*K0	006123	12 7111
003760		JP*DONE ENTRY	006124	34 6044
003761	READ3	0*0	006125	00 0000
003762		STRICR*BSAV	006126	72 7105
003763		ENTALK*0	006127	70 0000
003764		ENTICR*4	006130	5072 04
003765		ENTBK*0	006131	36 0000
003766	INWD	IN*PTCHAN INPUT ONE WORD	006132	5011 00
003767		0*FRAME	006133	007074

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0067
003770		0*FRAME	006134	007074		
003771		SKPIIN*PTCHAN WAIT	006135	5021 00		
003772		JP*LOK=1	006136	34 6135		
003773		LSHAL*0	006137	5046 06		
003774		SLSET*FRAME GET 6 BITS	006140	51 7074		
003775		BSK*K2 DONE	006141	56 7065		
003776		JP*INWD NO	006142	34 6132		
003777		ENTICR*1	006143	5072 01		
004000		IJP*READ3 EXIT	006144	55 6125		
004001		ENTAU*K0	006145	10 7111		
004002		ENTAL*K0	006146	12 7111		
004003	PTOFF	0*0	006147	00 0000		
004004		EXP*PTCHAN	006150	5013 00		
004005		0*DISABL	006151	007107		
004006		0*DISABL	006152	007107		
004007		RSHA*300	006153	5043 44		
004010		IJP*PTOFF	006154	55 6147		
004011	READ5	0*0	006155	00 0000		
004012		ENTICR*4	006156	5072 04		
004013		ENTBK*0	006157	36 0000		
004014		ENTALK*0	006160	70 0000		
004015		ENTAU*K0	006161	10 7111		
004016	READ5A	IN*PTCHAN	006162	5011 00		
004017		0*FRAME	006163	007074		
004020		0*FRAME	006164	007074		
004021		SKPIIN*PTCHAN	006165	5021 00		
004022		JP*LOK=1	006166	34 6165		
004023		LSHA*0	006167	5047 06		
004024		SLSET*FRAME	006170	51 7074		
004025		BSK*K4	006171	56 7067		
004026		JP*READ5A	006172	34 6162		

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1287

SEGN0	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1288		LSHA*3	006173	5047 03
		RSHAL*3	006174	5042 03
		IJP*READ5	006175	55 6155
	PTDUMP	ENTSR*0	006176	5073 00
		ENTICR*1    SELECT B REG	006177	5072 01
		ENTB*ALSAVE    SET B LIMITS	006200	32 7057
		ENTAL*AUSAVC	006201	12 7060
		ADDAL*K1    MOD FOR SAUING CKSUM	006202	14 7064
		STRADR*CKSUM1+3	006203	74 0211
		STRAL*LIMIT2	006204	44 7114
		ENTALK*0	006205	70 0000
	CKSUM1	ADDALB*0    COMPUTE CHECKSUM	006206	15 0000
		BSK*AUSAVC    DONE	006207	56 7060
		JP*CKSUM1    NO	006210	34 0206
		STRAL*0    YES	006211	44 0000
		EXP*PTCHAN    ENABLE PUNCH	006212	5013 00
		0*PUN0N	006213	007115
		0*PUN0N	006214	007115
		ENTB*K0	006215	32 7111
	SEND	ENTALK*0	006216	70 0000
		RJP*PUNF    OUTPUT FRAME	006217	76 0262
		BSK*K300	006220	56 7227
		JP*SEND    NO	006221	34 0216
		ENTAL*K76    YES	006222	12 7104
		RJP*PUNF	006223	76 0262
		ENTAU*ALSAVE	006224	10 7057
		ENTAL*AUSAVC	006225	12 7060
		LSHAL*3	006226	5046 03
		LSHA*3	006227	5047 03
		ENTICR*2    RESET B REG	006230	5072 02
		ENTB*K0	006231	32 7111

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0069
004066	SIXSH	LSHA*6 POSITION FRAME	006232	5047 06		
004067		RJP*PUNF OUTPUT FRAME	006233	76 6262		
004070		BSK*K4	006234	56 7067		
004071		JP*SIXSH NO	006235	34 6232		
004072		ENTB*ALSAVE	006236	32 7057		
004073		ENTALB*0	006237	13 0000		
004074		ENTICR*3	006240	5072 03		
004075		ENTB*K0	006241	32 7111		
004076		LSHAL*6	006242	5046 06		
004077		RJP*PUNF	006243	76 6262		
004100		BSK*K2	006244	56 7065		
004101		JP*L0K-3	006245	34 6242		
004102		ENTICR*2	006246	5072 02		
004103		BSK*LIMIT2	006247	56 7114		
004104		JP*L0K-11	006250	34 6237		
004105		ENTB*K0	006251	32 7111		
004106	SEND1	ENTALK*0 PUNCH TAIL	006252	70 0000		
004107		RJP*PUNF OUTPUT FRAME	006253	76 6262		
004110		BSK*K300	006254	56 7227		
004111		JP*SEND1 NO	006255	34 6252		
004112		RJP*PT0FF YES	006256	76 6147		
004113		ENTAU*K0	006257	10 7111		
004114		ENTAL*K0	006260	12 7111		
004115		JP*DONE EXIT	006261	34 6044		
004116	PUNF	0*0 ENTRY	006262	00 0000		
004117		STRAL*SHSAVE	006263	44 7226		
004120		SLCL*K77	006264	52 7140		
004121		STRAL*FRAME STORE 6 BITS	006265	44 7074		
004122		OUT*PTCHAN OUTPUT	006266	5012 00		
004123		0*FRAME	006267	007074		
004124		0*FRAME	006270	007074		

NAVSEA Op 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1289

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1290		SKP0IN*PTCHAN WAIT	006271	5022 00
		JP*L0K=1	006272	34 6271
		ENTAL*SHSAVE	006273	12 7226
		IJP*PUNF EXIT	006274	55 6262
	MTLOAD	RJP*SETUP	006275	76 6610
		ENTAL*NWLN0	006276	12 7302
		STRAL*NWLPAT	006277	44 6540
		EXF*MTCHAN	006300	5013 13
		0*READ	006301	007077
		0*READ	006302	007077
		EXF0V*MTCHAN	006303	5027 13
		IN*MTCHAN INPUT 5 WORDS	006304	5011 13
		0*BUFF+4	006305	000664
		0*BUFF	006306	000660
		SKPIIN*MTCHAN	006307	5021 13
		JP*L0K=1	006310	34 6307
		ENTAL*BUFF+4 SET STARTING L0C	006311	12 0664
		STRAL*P0LOAD+2	006312	44 6327
		ENTAL*BEGAT	006313	12 7234
		CMAL*BUFF	006314	02 0660
		JPMLE0*L0K+2	006315	65 6317
		JP*L0K+3	006316	34 6321
		CMAL*BUFF+3	006317	02 0663
		JPMGR*RDSELF	006320	67 6356
		ENTAL*BUFF+3 N0	006321	12 0663
		STRAL*P0LOAD+1	006322	44 6326
		ENTALK*7777	006323	70 7777
		STRAL*WTFIL	006324	44 7141
	P0LOAD	IN*MTCHAN INPUT PROGRAM	006325	5011 13
		0*0	006326	00 0000
		0*0	006327	00 0000

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

TABLE 8-73 PROGRAM LISTING



SEQNO	LABEL	STATEMENT	PAGE	0071
			ADDRESS	INSTRUCT
004164		SKPIIN*MTCHAN	006330	5021 13
004165		JP*L0K=1	006331	34 6330
004166		ENTAL*WTFIL	006332	12 7141
004167		JPALNG*L0K=1	006333	07 6332
004170		ENTB*BUFF COMPUTE CKSUM	006334	32 0600
004171		ENTAL*BUFF+2	006335	12 0602
004172		SUBAL*BUFF	006336	10 0600
004173		SUBALB*0	006337	17 0000
004174		BSK*BUFF+3	006340	00 0603
004175		JP*L0K=2	006341	34 6337
004176		JPALNZ*RETR0R	006342	03 6346
004177		ENTAL*K0	006343	12 7111
004200		ENTAU*K0	006344	10 7111
004201		IJP*BUFF+1	006345	05 0601
004202	RETR0R	ISK*TRY TRY TO READ 3 TIMES	006346	07 7120
004203		JP*RETRY	006347	34 6303
004204		ENTAU*STATWD	006350	10 7121
004205		ENTAL*K11	006351	12 7220
004206		JP*00NE	006352	34 0044
004207	RETRY	RJP*BKSPAC MOVE BACK 1	006353	70 6307
004210		CL*STATWD	006354	40 7121
004211		JP*MTLOAD+1	006355	34 0270
004212	RDSELF	ENTAU*IGN0RE	006356	10 7100
004213		STRAU*0	006357	40 0000
004214		WTFI*0	006360	5024 00
004215		ENTAU*K0	006361	10 7111
004216		ENTAL*K55	006362	12 7232
004217		JP*00NE	006363	34 0044
004220	TTHREAD	ENTAU*STATWD	006364	10 7121
004221		ENTALK*7777	006365	70 7777
004222		JP*00NE	006366	34 0044

CHANGE 7 8-1291

NAVSEA OP-3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEGNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
004223	BKSPAC	0*0 ENTRY	006367	00 0000
004224		ENTAL*Z6M1J	006370	12 7240
004225	Z5	STRAL*0	006371	44 0000
004226		EXP*MTCHAN BACK SPACE 1 BLOCK	006372	5013 13
004227		0*BACK	006373	007076
004230		0*BACK	006374	007076
004231		EXP0V*MTCHAN	006375	5027 13
004232		JP*L0K WFI	006376	34 6376
004233		ENTAL*DUMMY	006377	12 7110
004234	Z6	STRAL*0	006400	44 0000
004235		IJP*BKSPAC	006401	35 6367
004236	MTDUMP	ENTAU*AUSAVC	006402	10 7060
004237		ENTAL*NWLYES	006403	12 7303
004240		STRAL*NWLPAT	006404	44 6540
004241		LSHAU*1	006405	5045 01
004242		RSHAU*1	006406	5041 01
004243		ENTAL*ALSAVE	006407	12 7057
004244		SLCL*K7777	006410	52 7133
004245		STRAL*LIMIT SAVE	006411	44 7112
004246		STRAU*LIMIT1 LIMITS	006412	46 7113
004247	REG0	RJP*SETUP	006413	76 0610
004250		CL*INTER+1	006414	40 6563
004251		CL*SETUP	006415	40 6610
004252		CL*FDSPAC	006416	40 6745
004253		CL*REWD	006417	40 6760
004254		CL*PUNF	006420	40 6262
004255		CL*PT0FF	006421	40 6147
004256		CL*READ3	006422	40 6125
004257		CL*READ5	006423	40 6155
004260		ENTAL*LIMIT1	006424	12 7113
004261	NTDST	ADDALK*00 ADD +0 IF NTDS/1219, +1 IF STD 1216	006425	71 0000

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0073
004262		STRAL*DOUT+3	006426	44	0673	
004263		STRAL*PROUT+1	006427	44	6461	
004264	READY1	ENTB*LIMIT	006430	32	7112	
004265		ENTAL*LIMIT GET BEGINNING ADDRESS	006431	12	7112	
004266		STRAL*DOUT SAVE IT	006432	44	0670	
004267		STRAL*DOUT+1 SAVE IT	006433	44	0671	
004270		STRAL*DOUT+4 SAVE IT	006434	44	0674	
004271		STRAL*PROUT+2	006435	44	6462	
004272	BLOCK2	EXF*MTCHAN INSURE 1219B DIAGNOSTIC	006436	5013	13	
004273		0*WRITE BLOCK 2 COMPUTES CORRECT	006437		007100	
004274		0*WRITE+1 CHECKSUB ON DUMP	006440		007101	
004275		EXFSTP*MTCHAN	006441	5017	13	
004276		CL*0 CLR STATUS WD LOCATION	006442	40	0000	
004277	CKSUM2	ADDALB*0 COMPUTE CKSUM	006443	15	0000	
004300		BSK*LIMIT1	006444	50	7113	
004301		JP*CKSUM2	006445	34	6443	
004302		STRAL*DOUT+2	006446	44	0672	
004303	CKS	EXF*MTCHAN	006447	5013	13	
004304		0*WRITE	006450		007100	
004305		0*WRITE	006451		007100	
004306		EXF0V*MTCHAN	006452	5027	13	
004307		OUT*MTCHAN OUTPUT FIRST FIVE WORDS	006453	5012	13	
004310		0*DOUT+4	006454		000674	
004311		0*DOUT	006455		000670	
004312		SKP0IN*MTCHAN	006456	5022	13	
004313		JP*LOK=1	006457	34	6456	
004314	PROUT	OUT*MTCHAN	006460	5012	13	
004315		0*0	006461	00	0000	
004316		0*0	006462	00	0000	
004317		WTFI*0 WAIT	006463	5024	00	
004320		RJP*BKSPAC NO ERROR	006464	76	6367	

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1293

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1294		004321 PR0 EXF*MTCHAN	006465	5013 13
		004322 0*READ	006466	007077
		004323 0*READ	006467	007077
		004324 EXF0V*MTCHAN	006470	5027 13
		004325 IN*MTCHAN INPUT	006471	5011 13
		004326 0*BUFF+4	006472	000664
		004327 0*BUFF	006473	000660
CHANGE 7		004330 SKPIIN*MTCHAN	006474	5021 13
		004331 JP*L0K=1	006475	34 6474
		004332 ENTB*BUFF	006476	32 0660
		004333 ENTAL*BUFF	006477	12 0660
	CKREAD	004334 IN*MTCHAN CHECKREAD OUTPUT	006500	5011 13
		004335 0*WORD	006501	000667
		004336 0*WORD	006502	000667
		004337 SKPIIN*MTCHAN	006503	5021 13
		004340 JP*L0K=1	006504	34 6503
		004341 ADDAL*WORD	006505	14 0667
		004342 STRAL*CKWORD	006506	44 0666
		004343 BSK*BUFF+3	006507	56 0663
		004344 JP*CKREAD	006510	34 6500
	CKWAIT	004345 WTFI*0	006511	5024 00
		004346 ENTAL*CKWORD	006512	12 0666
		004347 SUBAL*DOU+2	006513	16 0672
		004350 JPALNZ*WERR0R	006514	63 6534
		004351 ENTAL*AUSAVC	006515	12 7060
		004352 JPALP*ENDWRT	006516	65 6531
		004353 ENTAL*IGN0RE	006517	12 7106
	Z1	004354 STRAL*0	006520	44 0000
		004355 EXF*MTCHAN WRITE TAPE MARK	006521	5013 13
		004356 0*MARK	006522	007101
		004357 0*MARK	006523	007101

SEQNO	LABEL	STATEMENT	PAGE	0075	ADDRESS	INSTRUCT
004360		EXFOV*MTCHAN	006524	5027	13	
004361		WTFI*0	006525	5024	00	
004362		ENTAL*DUMMY	006526	12	7110	
004363	Z2	STRAL*0	006527	44	0000	
004364		RJP*BKSPAC	006530	76	6367	
004365	ENDWRT	ENTAL*K0	006531	12	7111	
004366		ENTAU*K0	006532	10	7111	
004367		JP*00NE	006533	34	6044	
004370	WERR0R	ISK*TRY	006534	57	7120	
004371		JP*L0K+2	006535	34	6537	
004372		JP*BADWRT	006536	34	6543	
004373		RJP*BKSPAC	006537	76	6367	
004374	NWLPAT	RJP*WTRG	006540	76	6736	
004375		CL*STATWD	006541	40	7121	
004376		JP*REG0+1	006542	34	6414	
004377	BADWRT	ENTAU*STATWD	006543	10	7121	
004400		ENTAL*K44	006544	12	7224	
004401		JP*00NE	006545	34	6044	
004402	IANDC	ENTAL*ALSAVE	006546	12	7057	
004403		STRAL*SAVE	006547	44	7124	
004404		ENTB*SAVE	006550	32	7124	
004405		ENTAUB*00	006551	11	0000	
004406		STOP*40	006552	5056	40	
004407		STRAUB*0	006553	47	0000	
004410		JPALNG*00NE	006554	67	6044	
004411		SUBAL*SAVE	006555	16	7124	
004412		JPALNZ*L0K+2	006556	63	6560	
004413		ADDAL*K1	006557	14	7064	
004414		ADDAL*SAVE	006560	14	7124	
004415		JP*IANDC+1	006561	34	6547	
004416	INTER	0*INTER+1	006562		006563	

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1295

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1296		0*0	006563	00 0000
		ENTAL*0 GET STATUS WORD	006564	12 0000
		STRAL*STATWD	006565	44 7121
		LSHAL*3	006566	5046 03
		JPALNG*IMPCON IS IT IMPROPER CONDITION	006567	67 6604
		LSHAL*12 NO	006570	5046 12
		JPALP*L0K+5	006571	65 6576
		ENTAU*STATWD YES	006572	10 7121
		ENTAL*TMSAVE	006573	12 7063
		STRAL*INTER+1	006574	44 6563
		JP*FININ	006575	34 6602
		ENTAL*STATWD	006576	12 7121
		SLCL*K3710	006577	52 7221
		JPALZ*FININ	006600	61 6602
		JP*WERR0R	006601	34 6534
	FININ	CL*WTFIL	006602	40 7141
		IJPEI*INTER+1 EXIT	006603	54 6563
	IMPCON	ENTAU*STATWD GET STATUS WORD	006604	10 7121
		ENTAL*K22	006605	12 7223
		RIL*0	006606	5030 00
		JP*DONE EIXT	006607	34 6044
	SETUP	0*0 ENTRY	006610	00 0000
		ENTSR*0	006611	5073 00
		ENTICR*1 SET B1	006612	5072 01
		ENTBK*366	006613	36 0366
		ENTALK*01 1219B DIAGNOSTIC	006614	70 0001
		CMAL*BLSAVE BLOCK NO 2	006615	02 7061
		JPEG*L0K+4 DONT STORE RILS	006616	61 6622
		ENTAL*IGNORE GET IGNOR INTERRUPT INSTR.	006617	12 7106
		STRALB*11 SET ALL INTERRUPT ADDRESSES	006620	45 0011
		BJP*L0K-1	006621	73 6620

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CHANGE 7

SEQNO	LABEL	STATEMENT	ADDRESS	PAGE	INSTRUCT	0077
004456		ENTAL*P0LOAD FIND CHAN	006622	12	6325	
004457		LSHA*14	006623	5047	14	
004460		RSHAL*14	006624	5042	14	
004461		STRAL*CHAN1 SAVE CHAN	006625	44	7125	
004462		SUBAL*K10	006626	16	7126	
004463		JPALP*UCHAN IS IT THE UPPER CHANS	006627	65	6634	
004464		ENTAL*CHAN1 N0	006630	12	7125	
004465		LSHAL*1	006631	5046	01	
004466		ADDALK*100 FIND CHAN INTERRUPT ADDRESS	006632	71	0100	
004467		JP*UCHAN+2	006633	34	6636	
004470	UCHAN	LSHAL*1	006634	5046	01	
004471		ADDALK*300 FIND CHAN INTERPT ADDRESS	006635	71	0300	
004472		STRADR*FIX	006636	74	6654	
004473		STRADR*RDSELF+1	006637	74	6357	
004474		STRADR*Z1	006640	74	6520	
004475		STRADR*Z2	006641	74	6527	
004476		STRADR*Z3	006642	74	6747	
004477		STRADR*Z4	006643	74	6756	
004500		STRADR*Z5	006644	74	6371	
004501		STRADR*Z6	006645	74	6400	
004502		STRADR*Z7	006646	74	6762	
004503		STRADR*Z10	006647	74	6771	
004504		ADDALK*1 FIND ADDRESS OF STATUS WORD	006650	71	0001	
004505		STRADR*INTER+2	006651	74	6564	
004506		STRADR*BLOCK2+4	006652	74	6442	
004507		ENTAL*IGNORE	006653	12	7106	
004510	FIX	STRAL*0 PLACE INSTR IN ADDRESS	006654	44	0000	
004511		RIL*0	006655	5030	00	
004512		EXF*MTCHAN SEND MC	006656	5013	13	
004513		0*COM+2	006657		007131	
004514		0*COM	006660		007127	

TABLE 8-73 PROGRAM LISTING

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

CHANGE 7 8-1297

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1298		EXF0V*MTCHAN	006661	5027 13
		ENTAL*ALSAVE FIND TT	006662	12 7057
		SLCL*K70	006663	52 7231
		RSHAL*17	006664	5042 17
		STRAL*TTSAVE	006665	44 7235
CHANGE 7		ENTAU*K7	006666	10 7072
		ENTAL*WD	006667	12 7075
		SLSU*TTSAVE	006670	04 7235
		STRAL*WD	006671	44 7075
		ENTAL*BACK	006672	12 7076
		SLSU*TTSAVE	006673	04 7235
		STRAL*BACK	006674	44 7076
		ENTAL*READ	006675	12 7077
		SLSU*TTSAVE	006676	04 7235
		STRAL*READ	006677	44 7077
		ENTAL*WRITE	006700	12 7100
		SLSU*TTSAVE	006701	04 7235
		STRAL*WRITE	006702	44 7100
		ENTAL*MARK	006703	12 7101
		SLSU*TTSAVE	006704	04 7235
		STRAL*MARK	006705	44 7101
		ENTAL*SPACFD	006706	12 7102
		SLSU*TTSAVE	006707	04 7235
		STRAL*SPACFD	006710	44 7102
		ENTAL*WXRG	006711	12 7103
		SLSU*TTSAVE	006712	04 7235
		STRAL*WXRG	006713	44 7103
		ENTAL*TTSAVE	006714	12 7235
		ADDAL*SELECTZ	006715	14 7131
		STRAL*COM+1	006716	44 7130
	FIXS	EXF0V*MTCHAN	006717	5027 13

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 TABLE 8-73 PROGRAM LISTING



SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0079
004554		ENTALK*3777	006720	70	3777	
004555		ADDALK*7776	006721	71	7776	
004556		JPALNZ*L0K=1	006722	63	6721	
004557		RJP*REWD	006723	76	6760	
004560		ENTAL*BLSAVE    FIND BLOCK	006724	12	7061	
004561		JPALZ*F0B+2	006725	61	6733	
004562		SUBAL*K1    N0	006726	16	7064	
004563		STRAL*COUNT    SAVE BLOCK COUNT	006727	44	7132	
004564		ENTB*COUNT	006730	32	7132	
004565	F0B	RJP*FDSPAC	006731	76	6745	
004566		BJP*L0K=1	006732	73	6731	
004567		ENTALK*2	006733	70	0002	
004570		STRAL*TRY	006734	44	7120	
004571		IJP*SETUP	006735	55	6610	
004572	WTXRG	0*0	006736	00	0000	
004573		EXF*MTCHAN	006737	5013	13	
004574		0*WXRG	006740		007103	
004575		0*WXRG	006741		007103	
004576		EXF0V*MTCHAN	006742	5027	13	
004577		WTFI*0	006743	5024	00	
004600		IJP*WTXRG	006744	55	6736	
004601	FDSPAC	0*0	006745	00	0000	
004602		ENTAL*Z4M1J	006746	12	7236	
004603	Z3	STRAL*0	006747	44	0000	
004604		EXF*MTCHAN	006750	5013	13	
004605		0*SPACFD	006751		007102	
004606		0*SPACFD	006752		007102	
004607		EXF0V*MTCHAN	006753	5027	13	
004610		JP*L0K    WTFI	006754	34	6754	
004611		ENTAL*DUMMY	006755	12	7110	
004612	Z4	STRAL*0	006756	44	0000	

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1299

SEQNO	LABEL	STATEMENT	ADDRESS	PAGE	INSTRUCT	0000
8-1300		004613 IJP*FDSPAC	006757	55	6745	
	REWD	004614 0*0	006760	00	0000	
		004615 ENTAL*Z10M1J	006761	12	7242	
	Z7	004616 STRAL*0	006762	44	0000	
		004617 EXP*MTCHAN	006763	5013	13	
CHANGE 7		004620 0*WD	006764		007075	
		004621 0*WD	006765		007075	
		004622 EXP0V*MTCHAN	006766	5027	13	
		004623 JP*L0K WTFI	006767	34	6767	
		004624 ENTAL*DUMMY	006770	12	7110	
	Z10	004625 STRAL*0	006771	44	0000	
		004626 IJP*REWD	006772	53	6760	
	CHACHG	004627 ENTICR*1	006773	5072	01	
		004630 JPAUNG*MTCH	006774	66	7010	
		004631 ENT0*TAB1A	006775	32	7215	
		004632 ENTAU*K77	006776	10	7140	
	CH	004633 ENTALB*0	006777	13	0000	
		004634 STRADR*L0K+4	007000	74	7004	
		004635 STRADR*L0K+1	007001	74	7002	
		004636 ENTAL*0	007002	12	0000	
		004637 SLSU*BLSAVE	007003	04	7061	
		004640 STRAL*0	007004	44	0000	
		004641 BSK*TAB1B	007005	56	7217	
		004642 JP*CH	007006	34	6777	
		004643 JP*F0RSEL-3	007007	34	7022	
	MTCH	004644 ENT0*TAB2A	007010	32	7216	
		004645 ENTAU*K77	007011	10	7140	
		004646 ENTALB*0	007012	13	0000	
		004647 STRADR*L0K+4	007013	74	7017	
		004650 STRADR*L0K+1	007014	74	7015	
		004651 ENTAL*0	007015	12	0000	

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	PAGE ADDRESS	0001 INSTRUCT
004652		SLSU*BLSAVE	007016	04 7061
004653		STRAL*0	007017	44 0000
004654		BSK*TAB2B	007020	06 7220
004655		JP*MTCH+2	007021	04 7012
004656		ENTAU*K0	007022	10 7111
004657		ENTAL*K0	007023	12 7111
004660		JP*00NE	007024	04 6044
004661	F0RSEL	ENTAU*K070	007025	10 7123
004662		ENTAL*WD	007026	12 7075
004663		SLSU*ALSAVE	007027	04 7057
004664		STRAL*WD	007030	44 7075
004665		ENTAL*BACK	007031	12 7070
004666		SLSU*ALSAVE	007032	04 7057
004667		STRAL*BACK	007033	44 7076
004670		ENTAL*READ	007034	12 7077
004671		SLSU*ALSAVE	007035	04 7057
004672		STRAL*READ	007036	44 7077
004673		ENTAL*WRITE	007037	12 7100
004674		SLSU*ALSAVE	007040	04 7057
004675		STRAL*WRITE	007041	44 7100
004676		ENTAL*MARK	007042	12 7101
004677		SLSU*ALSAVE	007043	04 7057
004700		STRAL*MARK	007044	44 7101
004701		ENTAL*SELECTZ	007045	12 7131
004702		SLSU*ALSAVE	007046	04 7057
004703		STRAL*SELECTZ	007047	44 7131
004704		ENTAL*SPACFD	007050	12 7102
004705		SLSU*ALSAVE	007051	04 7057
004706		STRAL*SPACFD	007052	44 7102
004707		ENTAL*WXRG	007053	12 7103
004710		SLSU*ALSAVE	007054	04 7057

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1301

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CHANGE 7

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
004711		STRAL*WXRG	007055	44 7103
004712		JP*F0RSEL=3	007056	34 7022
004713	ALSAVE	0*0	007057	00 0000
004714	AUSAVC	0*0	007060	00 0000
004715	BLSAVE	0*0	007061	00 0000
004716	RCODE	0*0	007062	00 0000
004717	TMSAVE	0*TMREAD	007063	006364
004720	K1	0*1	007064	00 0001
004721	K2	0*2	007065	00 0002
004722	K3	0*3	007066	00 0003
004723	K4	0*4	007067	00 0004
004724	K5	0*5	007070	00 0005
004725	K6	0*6	007071	00 0006
004726	K7	0*7	007072	00 0007
004727	ENABLE	0*151	007073	00 0151
004730	FRAME	0*0	007074	00 0000
004731	WD	14*0711	007075	14 0711
004732	BACK	10*0711	007076	10 0711
004733	READ	00*0711	007077	00 0711
004734	WRITE	04*0711	007100	04 0711
004735	MARK	06*0711	007101	06 0711
004736	SPACFD	00*0711	007102	00 0711
004737	WXRG	05*4711	007103	05 4711
004740	K76	0*76	007104	00 0076
004741	BSAV	0*0	007105	00 0000
004742	IGNORE	RIL*00	007106	5030 00
004743	DISABL	0*11	007107	00 0011
004744	DUMMY	IRJP*INTER	007110	30 6562
004745	K0	0*0	007111	00 0000
004746	LIMIT	0*0	007112	00 0000
004747	LIMIT1	0*0	007113	00 0000

SEQNO	LABEL	STATEMENT	PAGE ADDRESS	0003 INSTRUCT
004750	LIMIT2	0*0	007114	00 0000
004751	PUN0N	0*15	007115	00 0015
004752	K100	0*100	007116	00 0100
004753	BSAVE1	0*0	007117	00 0000
004754	TRY	0*2	007120	00 0002
004755	STATWD	0*0	007121	00 0000
004756	BESAVE	0*0	007122	00 0000
004757	K070	0*3700	007123	00 3700
004760	SAVE	0*0	007124	00 0000
004761	CHAN1	0*0	007125	00 0000
004762	K10	0*10	007126	00 0010
004763	COM	60*0	007127	60 0000
004764		0*0	007130	00 0000
004765	SELECTZ	40*0010	007131	40 0010
004766	COUNT	0*0	007132	00 0000
004767	K7777	07*7777	007133	07 7777
004770	ENADD	0*0	007134	00 0000
004771	SAVECD	0*0	007135	00 0000
004772	CUSAVE	0*0	007136	00 0000
004773	CLSAVE	0*0	007137	00 0000
004774	K77	0*77	007140	00 0077
004775	WTFIL	0*0 WTFI TEST LOC	007141	00 0000
004776	TAB1	0*PTLOAD+1	007142	006046
004777		0*IN76	007143	006051
005000		0*IN76+3	007144	006054
005001		0*INWD	007145	006132
005002		0*INWD+3	007146	006135
005003		0*PTOFF+1	007147	006150
005004		0*CKSUM1+4	007150	006212
005005		0*PUNF+4	007151	006266
005006		0*READ5A	007152	006162

CHANGE 7

8-1303

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

8-1304

CHANGE 7

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
005007		0*READ5A+3	007153	006165
005010		0*PUNF+7	007154	006271
005011	TAB2	0*MTLOAD+1	007155	006276
005012		0*MTLOAD+4	007156	006301
005013		0*MTLOAD+5	007157	006302
005014		0*MTLOAD+10	007160	006305
005015		0*PLOAD	007161	006325
005016		0*PLOAD+3	007162	006330
005017		0*BKSPAC+3	007163	006372
005020		0*BKSPAC+6	007164	006375
005021		0*BLOCK2	007165	006436
005022		0*BLOCK2+3	007166	006441
005023		0*CK8	007167	006447
005024		0*CK8+3	007170	006452
005025		0*CK8+4	007171	006453
005026		0*PROUT-2	007172	006456
005027		0*PROUT	007173	006460
005030		0*PR0	007174	006465
005031		0*PR0+3	007175	006470
005032		0*PR0+4	007176	006471
005033		0*PR0+7	007177	006474
005034		0*CKREAD	007200	006500
005035		0*CKREAD+3	007201	006503
005036		0*ENDWRT-5	007202	006524
005037		0*ENDWRT-10	007203	006521
005040		0*FIX+2	007204	006656
005041		0*FIX+5	007205	006661
005042		0*FIX8	007206	006717
005043		0*FDSPAC+3	007207	006750
005044		0*FDSPAC+6	007210	006753
005045		0*WTXRG+1	007211	006737

SEGNU	LABEL	STATEMENT	PAGE ADDRESS	0085 INSTRUCT
005046		0*WTRG+4	007212	006742
005047		0*Z7+1	007213	006763
005050		0*Z7+4	007214	006766
005051	TAB1A	0*TAB1	007215	007142
005052	TAB2A	0*TAB2	007216	007155
005053	TAB1B	0*TAB1+12	007217	007154
005054	TAB2B	0*TAB2+37	007220	007214
005055	K3710	0*3700	007221	00 3700
005056	K33	33*3333	007222	33 3333
005057	K22	22*2222	007223	22 2222
005060	K44	44*4444	007224	44 4444
005061	K11	11*1111	007225	11 1111
005062	SHSAVE	0*0	007226	00 0000
005063	K300	0*00300	007227	00 0300
005064	K66	66*6666	007230	66 6666
005065	K70	70*0000	007231	70 0000
005066	K55	55*5555	007232	55 5555
005067	DONE1	0*DONE	007233	006044
005070	BEGAT	0*ZPAC	007234	005777
005071	TTSAVE	0*0	007235	00 0000
005072	Z4M1J	IJPEI*Z4M1P	007236	54 7237
005073	Z4M1P	0*Z4=1	007237	006755
005074	Z6M1J	IJPEI*Z6M1P	007240	54 7241
005075	Z6M1P	0*Z6=1	007241	006377
005076	Z10M1J	IJPEI*Z10M1P	007242	54 7243
005077	Z10M1P	0*Z10=1	007243	006770
005100	STD18	ENTSR*0	007244	5073 00
005101		ENTB*TAB18A ALL EF/0D TACW +1 FOR STD 1218	007245	32 7257
005102		ENTALB*0	007246	13 0000
005103		STRADR*L0K+2	007247	74 7251
005104		STRADR*L0K+3	007250	74 7253

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7  
 8-1305

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0000
005105		ENTAL*0	007251	12	0000	
005106		ADDAL*K1	007252	14	7004	
005107		STRAL*0	007253	44	0000	
005110		RSK*TAB100	007254	56	7200	
005111		JP*STD10+2	007255	34	7240	
005112		JP*FORSEL-3	007256	34	7022	
005113	TAB10A	0*TAB10	007257		007261	
005114	TAB100	0*TAB10+17	007260		007300	
005115	TAB10	0*PTLOAD+2	007261		006047	
005116		0*NTDST	007262		006425	
005117		0*PTOFF+2	007263		006151	
005120		0*CKSUM1+5	007264		006213	
005121		0*PUNF+5	007265		006207	
005122		0*MTLOAD+2	007266		006277	
005123		0*Z5+2	007267		006373	
005124		0*BLOCK2+2	007270		006440	
005125		0*CK9+1	007271		006450	
005126		0*CK9+5	007272		006454	
005127		0*PR0+1	007273		006466	
005130		0*Z1+2	007274		006522	
005131		0*FIX+3	007275		006657	
005132		0*WTRG+2	007276		006740	
005133		0*Z3+2	007277		006751	
005134		0*Z7+2	007300		006764	
005135	CSUM	0*	007301		000000	
005136	NWLN0	RSHAL*0	007302	5042	00	
005137	NWLYES	RJP*WTRG	007303	76	6736	
005140	CONTPTCH	005247	007400		005247	
005141	*					
005142	*					
005143	AIMAT	0*0	005000	00	0000	

TEMPY CHECK SUM STORAGE REG.

DETECT OR A NEVER DETECT

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING



SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0087
005144		NO=OP	005001	5047 00		
005145		NO=OP	005002	5047 00		
005146		ENTSR*10 REF STK 0	005003	5073 10		
005147		STRAU*SAVEAU SAVE CONTENTS OF AU	005004	46 5331		
005150		STRAL*SAVEAL SAVE CONTENTS OF AL	005005	44 5332		
005151		ENTICR*04 SAVE B4	005006	5072 04		
005152		STRB*SAVEB SAVE CONTENTS OF B	005007	42 5333		
005153		ENTAL*AIMAT OBTAIN P VALUE PLUS 1	005010	12 5000		
005154		STRAL*SAVEP SAVE CONTENTS OF P	005011	44 5334		
005155		STOP*10 MAINT AID	005012	5056 10		
005156		ENTAL*TERMIN TERMINATE ALL INPUTS	005013	12 5341		
005157	AIMAT1	STRAL*AIMAT2 STORE I/O INSTRUCTION	005014	44 5015		
005160	AIMAT2	0 EXECUTE I/O TERMINATE	005015	000000		
005161		ADDALK*1 TERMINATE NEXT CHANNEL	005016	71 0001		
005162		CMAL*TERM20 ALL CHANNELS TERMINATED	005017	02 5344		
005163		JPEQ*AIMAT3 YES	005020	01 5022		
005164		JP*AIMAT1 NO	005021	04 5014		
005165	AIMAT3	ENTAL*TERM0T TERMINATE ALL OUTPUTS	005022	12 5342		
005166	AIMAT4	STRAL*AIMAT5 STORE I/O INSTRUCTION	005023	44 5024		
005167	AIMAT5	0 TERMINATE OUTPUT K	005024	000000		
005170		ADDALK*1 TERMINATE NEXT CHANNEL	005025	71 0001		
005171		CMAL*TERM2A ALL CHANNELS TERMINATED	005026	02 5345		
005172		JPEQ*AIMAT6 YES	005027	01 5031		
005173		JP*AIMAT4 NO	005030	04 5023		
005174	AIMAT6	ENTAL*TERMEF TERMINATE ALL EFS	005031	12 5343		
005175	AIMAT7	STRAL*AIMAT8 STORE I/O INSTRUCTION	005032	44 5033		
005176	AIMAT8	0 TERMINATE EF K	005033	000000		
005177		ADDALK*1 TERMINATE NEXT CHANNEL	005034	71 0001		
005200		CMAL*TERM2B ALL CHANNELS TERMINATED	005035	02 5346		
005201		JPEQ*AIMAT9 YES	005036	01 5040		
005202		JP*AIMAT7 NO	005037	04 5032		

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
005203	AIMAT9	JPALZ*AIMA10 JUMP INSTR STORED HERE	005040	61 5041
005204		REMARK*IF NEW DETECT AFTER 5 CONSECUTIVE DETECTS		
005205	AIMA10	ENTAL*SAVEP P REG VALUE	005041	12 5334
005206		CMAL*LASTAD NO FIND	005042	02 5347
005207		JPEQ*AIMA11 YES, NO DETECT	005043	61 5045
005210		JP*AIMATA NO, HAVE A DETECT	005044	34 5053
005211	AIMA11	ENTAL*FIVENF NO FIND FLAG	005045	12 5350
005212		CMAL*NUMPASS 5 NO FINDS	005046	02 5362
005213		JPEQ*AIMA12 YES	005047	61 5051
005214		JP*AIMATD MAKE ANOTHER PASS	005050	34 5207
005215	AIMA12	STOP*20 SET STP KEY 4 TO END TEST	005051	5050 20
005216		REMARK*NO MALFUNCTION DETECTED ON 5 PASSES		
005217		JP*AIMATD CONTINUE CYCLING PROGRAM	005052	34 5207
005220	AIMATA	ENTAL*CZERO CLEAR NO DETECT	005053	12 5375
005221		STRAL*NODET FLAG	005054	44 5376
005222		ENTAL*CYCSUB CYCLING FAILING SUBROUTINE	005055	12 5401
005223		JPALZ*AIMA38 NO	005056	61 5060
005224		JP*AIMATE YES	005057	34 5235
005225	AIMA38	ENTAL*DETECT INCREMENT DETECT FLAG	005060	12 5352
005226		ADDALK*1 BY ONE	005061	71 0001
005227		STRAL*DETECT RESTORE	005062	44 5352
005230		CMAL*CONE FIRST DETECT	005063	02 5353
005231		JPEQ*AIMA36 YES SAVE 1ST AU,AL,B,P	005064	61 5224
005232		ENTAL*C0NDET 2 CONSECUTIVE DETECTS	005065	12 5354
005233		JPALZ*AIMATB NO	005066	61 5075
005234		ADDALK*1 YES INCREMENT FLAG BY 1	005067	71 0001
005235		STRAL*C0NDET RESTORE	005070	44 5354
005236		ENTAL*SAVEP LAST 2 P VALUES THE	005071	12 5334
005237		CMAL*SAVEP2 SAME	005072	02 5335
005240		JPEQ*AIMATC YES	005073	61 5113
005241		JP*AIMA13 NO	005074	34 5077

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	PAGE	INSTRUCT	0000
005242	AIMATB	ENTAL*CONE SET CONSECUTIVE DETECT	005075	12	5353	
005243		STRAL*CONDET FLAG	005076	44	5354	
005244	AIMA13	ENTAL*FIVENF TWENTY	005077	12	5350	
005245		CMAL*TWOOH ATTEMPTS MADE	005100	02	5356	
005246		JPEQ*AIMATE YES	005101	01	5235	
005247		ENTALK*1 SET FLAG SO JP TO RUNENT IS	005102	70	0001	
005250		STRAL*STRRUN STORED IN BK1	005103	44	5361	
005251		REMARK*IF INSTK1 IS SET FAILURE OCCURRED				
005252		REMARK*WHEN MEDIA WAS MOVED TO STACK 1				
005253	AIMA16	ENTICR*04 HAVE STK 0 OR IOTA OR CONTBASI BAD	005104	5072	04	
005254		JP*RESINS SAVE/RESTORE INST AT FAIL ADDR + 1	005105	04	5415	
005255		ENTAL*TRUNCT RJP RUNENT	005106	12	5357	
005256		ENTSR*10 REFERENCE STACK0	005107	5073	10	
005257		STRALB*0 STR RJP RUNENT AT F.A.+1	005110	45	0000	
005260		ENTSR*00 REFERENCE CURRENT STACK	005111	5073	00	
005261		JP*AIMATD RECYCLE	005112	04	5207	
005262	AIMATC	ENTAL*FIVENF TWENTY	005113	12	5350	
005263		CMAL*TWOOH ATTEMPTS MADE	005114	02	5356	
005264		JPEQ*AIMATE YES	005115	01	5235	
005265		ENTAL*CONDET 5 CONSECUTIVE DETECTS	005116	12	5354	
005266		CMAL*CFIVE OCCUR	005117	02	5351	
005267		JPEQ*AIMA17 YES	005120	01	5122	
005270		JP*AIMATD RECYCLE	005121	04	5207	
005271	AIMA17	ENTAL*SAVEP CHECK ALL 5 P VALUES EQUAL	005122	12	5334	
005272		CMAL*SAVEP2 5TH AND 4TH EQUAL	005123	02	5335	
005273		JPEQ*AIMA18 YES	005124	01	5126	
005274		JP*AIMATE NO	005125	04	5235	
005275	AIMA18	CMAL*SAVEP3 5TH AND 3RD EQUAL	005126	02	5336	
005276		JPEQ*AIMA19 YES	005127	01	5131	
005277		JP*AIMATE NO	005130	04	5235	
005300	AIMA19	CMAL*SAVEP4 5TH AND 2ND EQUAL	005131	02	5337	

TABLE 8-73 PROGRAM LISTING

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

CHANGE 7 8-1309

8-1310

CHANGE 7

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
005301		JPEQ+AIMA20 YES	005132	61 5134
005302		JP+AIMATE NO	005133	34 5235
005303	AIMA20	CMAL+SAVEP5 5TH AND 1ST EQUAL	005134	02 5340
005304		JPEQ+AIMA21 YES	005135	61 5137
005305		JP+AIMATE NO	005136	34 5235
005306	AIMA21	ENTAL+JPST0P JP AIMATE STORED AT BEGINNING OF	005137	12 5364
005307		STRAL+AIMAT9 AIMAT	005140	44 5040
005310		STRAL+RUNEN9 RUNENT	005141	44 5300
005311		REMARK+PREVENT ENTRY UPON A NEW DETECT		
005312		REMARK+0R NO DETECT		
005313		JP+SSTJPF SET FLAG TO SHOW STOP/JUMP STORED	005142	34 5442
005314		JPALZ+AIMA29 NO STK 0 OR IOTA OR CONTBASI	005143	61 5157
005315		ENTALK+1 SET FLAG SO JP STOP OR	005144	70 0001
005316		STRAL+STRSTP JP ISOLATION IS STORED STK1	005145	44 5365
005317		ENTAL+INDEX JP ISOLATION STORE	005146	12 5363
005320		JPALZ+AIMA31 NO JP STP STORE	005147	61 5176
005321		ENTICR+04 USE B4	005150	5072 04
005322		ENTB+INDEX PULL OUT PROPER INSTR	005151	32 5363
005323		ENTALB+ITABLE JP ISOLATION TO BE STORED STK 1	005152	13 5402
005324		JP+AIMA30	005153	34 5164
005325	AIMA22	ENTAL+JPSTP5 STORE STOP IN BK 1	005154	12 5367
005326		STRAL+SINDEX STORE FOR LATER REFERENCE	005155	44 5366
005327		JP+AIMA32 FIND P VALUE AND SAVE	005156	34 5200
005330	AIMA29	ENTAL+INDEX JP ISOLATION STORE,STK 0 OR IOTA,CB	005157	12 5363
005331		JPALZ+AIMA31 NO JP STOP STORE	005160	61 5176
005332		ENTICR+04 USE B4	005161	5072 04
005333		ENTB+INDEX PULL OUT PROPER INSTR	005162	32 5363
005334		ENTALB+ITABLE JP ISOLATION INSTR	005163	13 5402
005335	AIMA30	STRAL+SINDEX SAVE JP INSTR	005164	44 5366
005336		ENTAL+SAVEP FAILING ADDRESS + 1	005165	12 5334
005337		ADDALK+7776 DECREMENT BY 1	005166	71 7776

SEGNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0091
005340		STRAL*SAVEP6 SAVE FAILING ADDRESS	005167	44 5355		
005341		JP*RESIN2 SAVE INST AT FAIL ADDR	005170	34 5446		
005342		ENTAL*SINDEX JP STOP/ISOLATION INSTR	005171	12 5366		
005343		ENTSR*10 REFERENCE STACK 0	005172	5073 10		
005344		STRALB*0 STORE JP STOP/ISOLATION INSTR	005173	45 0000		
005345		ENTSR*00 REFERENCE CURRENT STACK	005174	5073 00		
005346		JP*AIMATD RECYCLE	005175	34 5207		
005347	AIMA31	ENTAL*JPSTP5 JP STOP INSTR	005176	12 5367		
005350		JP*AIMA30 PROCESS STORE STOP	005177	34 5164		
005351	AIMA32	ENTAL*SAVEP FAILING ADDRESS + 1	005200	12 5334		
005352		ADDALK*7776 DECREMENT BY 1	005201	71 7776		
005353		STRAL*SAVEP6 SAVE FAILING ADDRESS	005202	44 5355		
005354		ENTB*SAVEP6 FAILING ADDRESS	005203	32 5355		
005355		ENTAL*JPSTP5 STOP INSTR	005204	12 5367		
005356		ENTSR*10 REF STK 0	005205	5073 10		
005357		STRALB*0 STORE AT F.A.	005206	45 0000		
005360	AIMATD	ENTAL*FIVENF UPDATE NUMBER OF ATTEMPTS	005207	12 5350		
005361		ADDALK*1 BY ONE	005210	71 0001		
005362		STRAL*FIVENF RESTORE	005211	44 5350		
005363		ENTAL*SAVEP4 SAVE LAST 5 P VALUES	005212	12 5337		
005364		STRAL*SAVEP5 5TH P VALUE	005213	44 5340		
005365		ENTAL*SAVEP3 MOVE	005214	12 5336		
005366		STRAL*SAVEP4 4TH P VALUE	005215	44 5337		
005367		ENTAL*SAVEP2 MOVE	005216	12 5335		
005370		STRAL*SAVEP3 3RD P VALUE	005217	44 5336		
005371		ENTAL*SAVEP MOVE	005220	12 5334		
005372		STRAL*SAVEP2 2ND P VALUE	005221	44 5335		
005373	AIMA35	ENTSR*00 REF CURRENT STACK	005222	5073 00		
005374		JP*RECYCLE2 REINITIALIZE REGISTERS	005223	34 5665		
005375	AIMA36	ENTAL*SAVEP SAVE 1ST P VALUE	005224	12 5334		
005376		STRAL*PASS1P FOR OPERATOR REFERENCE	005225	44 5334		

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1311

ADDRESS INSTRUCT

SEGRNO LABEL STATEMENT

8-1312

CHANGE 7

005377		ENTAL*SAVEAU	SAVE 1ST AU VALUE	005226	12	5331
005400		STRAL*PAS1AU	FOR OPERATOR REFERENCE	005227	44	5372
005401		ENTAL*SAVEAL	SAVE 1ST AL VALUE	005230	12	5332
005402		STRAL*PAS1AL	FOR OPERATOR REFERENCE	005231	44	5373
005403		ENTAL*SAVEB	SAVE 1ST B VALUE	005232	12	5333
005404		STRAL*PASS1B	FOR OPERATOR REFERENCE	005233	44	5374
005405		JP*AIMATB	CONTINUE	005234	34	5075
005406	AIMATE	EXP*1	INITIATE EP CH 1	005235	5013	01
005407		0*SAVEP	PUT FAILING P VALUE	005236		005334
005410		0*SAVEP	IN THE C EVEN REG	005237		005334
005411		EXP0V*1	FORCE EP	005240	5027	01
005412		ENTAL*SAVEAL	AL FAIL VALUE	005241	12	5332
005413		ENTAU*SAVEAU	AU FAIL VALUE	005242	10	5331
005414		ENTICR*04	ACTIVATE B4	005243	5072	04
005415		ENTB*SAVEB	B REG FAIL VALUE	005244	32	5333
005416		STOP*40	INTERMITTENT ERROR STOP	005245	5056	40
005417	RUNENT	0*0	NO DETECT AFTER A DETECT	005247	00	0000
005420		NO=0P		005250	5047	00
005421		NO=0P		005251	5047	00
005422		ENTSR*10		005252	5073	10
005423		ENTAL*TERMIN	TERMINATE ALL INPUTS	005253	12	5341
005424	RUNEN1	STRAL*RUNEN2	STR I/O INSTR	005254	44	5255
005425	RUNEN2	0	TERMINATE INPUT K	005255		000000
005426		ADDALK*1	TERMINATE NEXT CHANNEL	005256	71	0001
005427		CMAL*TERM20	ALL CHANNELS TERMINATED	005257	02	5344
005430		JPEG*RUNEN3	YES	005260	61	5262
005431		JP*RUNEN1	NO	005261	34	5254
005432	RUNEN3	ENTAL*TERM0T	TERMINATE ALL OUTPUTS	005262	12	5342
005433	RUNEN4	STRAL*RUNEN5	STR I/O INSTR	005263	44	5264
005434	RUNEN5	0	TERMINATE OUTPUT K	005264		000000
005435		ADDALK*1	TERMINATE NEXT CHANNEL	005265	71	0001

TABLE 8-73 PROGRAM LISTING

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

SEGNO	LABEL	STATEMENT	ADDRESS	PAGE	INSTRUCT	0093
005436		CMAL*TERM2A ALL CHANNELS TERMINATED	005266	02	5345	
005437		JPEQ*RUNEN6 YES	005267	61	5271	
005440		JP*RUNEN4 NO	005270	34	5263	
005441	RUNEN6	ENTAL*TERMEF TERMINATE ALL EFS	005271	12	5343	
005442	RUNEN7	STRAL*RUNEN8 STR I/O INSTR	005272	44	5273	
005443	RUNEN8	0 TERMINATE EF K	005273		000000	
005444		ADDALK*1 TERMINATE NEXT CHANNEL	005274	71	0001	
005445		CMAL*TERM2B ALL CHANNELS TERMINATED	005275	02	5346	
005446		JPEQ*RUNEN9 YES	005276	61	5300	
005447		JP*RUNEN7 NO	005277	34	5272	
005450	RUNEN9	JPALZ*RUNE10 JP INSTR STORED HERE	005300	61	5301	
005451		REMARK*IF NO-DETECT AFTER 5 CONSECUTIVE DETECTS				
005452	RUNE10	ENTAL*CZER0 CLEAR CONSECUTIVE	005301	12	5375	
005453		STRAL*CONDET DETECT FLAG	005302	44	5354	
005454		ENTAL*FIVENF TWENTY	005303	12	5350	
005455		CMAL*TWO0H ATTEMPTS MADE	005304	02	5356	
005456		JPEQ*AIMATE YES	005305	61	5235	
005457		ENTAL*NODET TEN NO-DETECTSAFTER A DETECT	005306	12	5376	
005460		CMAL*CTEN 10 NO-DETECTS	005307	02	5377	
005461		JPEQ*RUNE11 YES	005310	61	5317	
005462		ADDALK*1 INCREMENT NO-DETECT FLAG BY 1	005311	71	0001	
005463		STRAL*NODET SAVE COUNT	005312	44	5376	
005464		ENTAL*FIVENF UPDATE NO. OF ATTEMPTS	005313	12	5350	
005465		ADDALK*1 BY ONE	005314	71	0001	
005466		STRAL*FIVENF RESTORE	005315	44	5350	
005467		JP*AIMA35 RECYCLE	005316	34	5222	
005470	RUNE11	ENTAL*CYCSUB FAILING SUBROUTINE	005317	12	5401	
005471		CMAL*CTEN CYCLED 10 TIMES	005320	02	5377	
005472		JPEQ*AIMATE YES	005321	61	5235	
005473		ADDALK*1 NO, INCREMENT COUNT BY 1	005322	71	0001	
005474		STRAL*CYCSUB SAVE COUNT	005323	44	5401	

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1313

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1314		ENTAL*SUTCFS STORE JUMP TO CYCLE	005324	12 5400
		STRAL*RUNE12 FAILING SUBROUTINE	005325	44 5330
	RUNE11A	ENTSR*00 REF CURRENT STK	005326	5073 00
		IJP*RUNE12 JP TO FAILING SUBROUTINE	005327	55 5330
	RUNE12	STOP*40 ADDR TO JUMP TO STORED HERE	005330	5056 40
CHANGE 7	005502	SAVEAU 0	005331	000000
	005503	SAVEAL 0	005332	000000
	005504	SAVEB 0	005333	000000
	005505	SAVEP 0 1ST P VALUE	005334	000000
	005506	SAVEP2 0	005335	000000
	005507	SAVEP3 0	005336	000000
	005510	SAVEP4 0	005337	000000
	005511	SAVEP5 0	005340	000000
	005512	TERMIN 501500	005341	501500
	005513	TERM0T 501600	005342	501600
	005514	TERMEF 501700	005343	501700
	005515	TERM20 501520	005344	501520
	005516	TERM2A 501620	005345	501620
	005517	TERM2B 501720	005346	501720
	005520	0*ENDTST LAST TEST ADDRESS	005347	010066
	005521	0 CLEAR ON LOAD, NO. OF ATTEMPTS	005350	000000
	005522	CFIVE 5 MAXIMUM NO. OF NO FINDS	005351	000005
	005523	DETECT 0 CLEAR ON LOAD, NO. OF DETECTS	005352	000000
	005524	CONE 1	005353	000001
	005525	CONDET 0 CLEAR ON LOAD, NO. OF CONSECUTIVE DETECTS	005354	000000
	005526	SAVEP6 0	005355	000000
	005527	TW00H 24 MAXIMUM NO. OF ATTEMPTS	005356	000024
	005530	TRUNCT IRJP*007400	005357	30 7400
	005531	INSTK1 0 WHEN SET PROGRAM MOVED TO STACK 1	005360	000000
	005532	STRRUN 0 WHEN SET STR RJP RUNENT IN STK 1	005361	000000
	005533	NUMPASS 5 NUMBER OF PASSES ALLOWED	005362	000005

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING



SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
005534	INDEX	0 SET TO CORRESPONDING JP ISOLATION	005363	000000
005535	JPSTOP	JP*AIMATE STORED AT BEGINNING OF AIMAT,RUNENT	005364	34 5235
005536	STRSTP	0 WHEN SET STR JP STOP/ISOLATION STK 1	005365	000000
005537	SINDEX	0 CONTAIN JP STOP/ISOLATION INSTR TO STR	005366	000000
005540	JPSTP5	STOP*40 STORE STOP IN PROGRAM	005367	5056 40
005541	AIMSAV	0*0 SAVE LOC	005370	00 0000
005542	PASS1P	0 SAVE 1ST P VALUE	005371	000000
005543	PAS1AU	0 SAVE 1ST AU VALUE	005372	000000
005544	PAS1AL	0 SAVE 1ST AL VALUE	005373	000000
005545	PASS1B	0 SAVE 1ST B VALUE	005374	000000
005546	CZERO	0 ALWAYS ZERO TO CLR FLAGS	005375	000000
005547	N0DET	0 CLEAR ON LOAD,NO. OF NO DETECTS	005376	000000
005550	CTEN	12 10 CONSECUTIVE NO-DETECTS	005377	000012
005551	SUTCFS	0 JP X STORED HERE TO CYCLE	005400	000000
005552		REMARK*FAILING SUBROUTINE		
005553	CYCSUB	0 CLR ON LD, NO. TIMES CYCLE SUB.	005401	000000
005554		REMARK*ITABLE CONTAINS JP ISOLATION INSTR		
005555		REMARK*TO BE STORED IN PROGRAM		
005556	ITABLE	0 NO INSTR HERE INDEX EQUAL 0	005402	000000
005557		342525	005403	342525
005560		342535	005404	342535
005561		342535	005405	342535
005562		342525	005406	342525
005563	ARUT1	IJP*ARUT2	005407	55 3410
005564	ARUT2	0*EXEC4+040000	005410	002057
005565	ARUT3	0*BITSPICK	005411	022525
005566	ARUT4	0*BITSDROP	005412	022535
005567	ARUT5	040000	005413	040000
005570	ARUT6	JP*CONTBASI	005414	34 0700
005571	RESINS	ENTAL*DETECT IS THIS THE FIRST DETECT	005415	12 5352
005572		CMAL*CONE	005416	02 5353

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1315

8-1316

CHANGE 7

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
005573		JPEQ*SAVEIN JUMP IF YES	005417	61 5434
005574		ENTAL*INSTK1 IS PROGRAM IN BANK 1	005420	12 5360
005575		JPALZ*INBNK0 JUMP IF NO	005421	61 5427
005576		ENTAL*SAVEP2 FAILING ADDRESS + 1	005422	12 5335
005577		SLSET*K40000 SET ADDRESS TO BANK 1	005423	61 5715
005600		STRAL*TEMP	005424	44 5722
005601		ENTB*TEMP	005425	32 5722
005602		JP*L0K+2	005426	34 5430
005603	INBNK0	ENTB*SAVEP2 FAILING ADDRESS + 1	005427	32 5335
005604		ENTAL*SAVINS INSTRUCTION AT FAIL ADDR+1	005430	12 5716
005605		ENTSR*10	005431	5073 10
005606		STRALB*0 RESTORE INSTRUCTION	005432	45 0000
005607		ENTSR*0	005433	5073 00
005610	SAVEIN	ENTB*SAVEP FAILING ADDRESS + 1	005434	32 5334
005611		ENTSR*10	005435	5073 10
005612		ENTALB*0 INSTRUCTION AT FAIL ADDR+1	005436	13 0000
005613		ENTSR*0	005437	5073 00
005614		STRAL*SAVINS SAVE INSTRUCTION	005440	44 5716
005615		JP*AIMA16+2	005441	34 5106
005616	SSTJPF	ENTALK*7776	005442	70 7776
005617		STRAL*FSTPJP SET STOP/JUMP FLAG	005443	44 5710
005620		ENTAL*INSTK1 FAILURE IN STACK 1	005444	12 5360
005621		JP*AIMA21+4	005445	34 5143
005622	RESIN2	ENTB*SAVEP6 FAILING ADDRESS	005446	32 5355
005623		ENTSR*10	005447	5073 10
005624		ENTALB*0 INSTRUCTION AT FAIL ADDR	005450	13 0000
005625		ENTSR*0	005451	5073 00
005626		STRAL*SAVIN2 SAVE INSTRUCTION	005452	44 5717
005627		JP*AIMA30+5	005453	34 5171

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEGNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0007
005630	MEDIA	SIL*0	022000	5034 00		
005631		ENTSR*00	022001	5073 00		
005632		ENTAU*MEMPARA	022002	10 6142		
005633		ENTAL*MEMPARB	022003	12 6143		
005634		STOP*10	022004	5056 10		
005635	*					
005636	*					
005637	*					
005640	*					
005641	*					
005642	*					
005643	*					
005644	*					
005645	*					
005646		RJP*PARAMETER	022005	76 2207		
005647		JP*EXEC2	022006	34 2010		
005650	*					
005651	EXEC1	ENTAU*N000000	022007	10 5770		
005652		ENTAL*N000000	022010	12 5770		
005653		STOP*02	022011	5056 02		
005654		SKP*1	022012	5050 01		
005655		IJP*I0TATST	022013	55 2015		
005656		JP*EXEC2	022014	34 2016		
005657	I0TATST	0*I0TA	022015	010000		
005660	EXEC2	SIL*0	022016	5034 00		
005661	*					
005662		ENTAL*L0WEXEC	022017	12 5661		
005663		STRAL*RECYCLE	022020	44 5677		
005664	*					

CHANGE 7 8-1317

TABLE 8-73 PROGRAM LISTING  
NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
005665		LSHAL*00	022021	5046 00
005666		RJP*CONTROL	022022	76 4444
005667		RJP*BOOT	022023	76 5137
005670		ENTAU*LOWLIMIT	022024	10 5662
005671		ENTAL*UPLIMIT	022025	12 5707
005672		RJP*MAIN	022026	76 2236
005673	L1031	ENTAU*N000100	022027	10 6003
005674		ENTALK*177	022030	70 0177
005675		RJP*MAIN	022031	76 2236
005676		ENTAU*N000300	022032	10 6005
005677		ENTAL*N000377	022033	12 6010
005700		RJP*MAIN	022034	76 2236
005701		ENTAU*N000540	022035	10 6014
005702		ENTAL*N000577	022036	12 6015
005703		RJP*MAIN	022037	76 2236
005704		ENTAU*CONTSIZE	022040	10 5622
005705	*			
005706		JPAUNZ*EXEC3	022041	62 2050
005707	*			
005710		ENTAU*N000400	022042	10 6011
005711		ENTAL*N000477	022043	12 6012
005712		RJP*MAIN	022044	76 2236
005713		ENTAU*N000600	022045	10 6016
005714		ENTAL*N000677	022046	12 6017
005715		RJP*MAIN	022047	76 2236
005716	EXEC3	ENTAU*ESR10	022050	10 5635
005717		ENTAL*ESR14	022051	12 5637
005720		ENTB*PRGSI1	022052	32 5641
005721		RJP*MOVE	022053	76 2224
005722		STOP*10	022054	5056 10
005723		JP*JPBK1RST	022055	34 6144

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CHANGE 7

NAVFSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEGN0	LABEL	STATEMENT	PAGE ADDRESS	0099 INSTRUCT
005724	*			
005725	UP	0*EXEC4+040000	022056	062057
005726	*			
005727	EXEC4	ENTAL*EXEC7E	022057	12 2205
005730		STRAL*MEDAMAT	022060	44 5650
005731		ENTAL*EXEC7F	022061	12 2206
005732		STRAL*MEDRUNT	022062	44 5653
005733		ENTAL*EXEC4B	022063	12 2064
005734	EXEC4B	ENTSR*14	022064	5073 14
005735		STRAL*AIMAT+3	022065	44 5003
005736		N0=0P	022066	5047 00
005737		STRAL*RUNENT+3	022067	44 5252
005740		ENTAL*ARUT1	022070	12 5407
005741		STRAL*STORESR+1	022071	44 5707
005742		ENTSR*00	022072	5073 00
005743		ENTAL*EXEC4B	022073	12 2064
005744		STRAL*W0RTA	022074	44 2326
005745		STRAL*W0RSTPTTN+4	022075	44 2262
005746		STRAL*W0RTB	022076	44 2357
005747		N0=0P	022077	5047 00
005750		STRAL*W0RTD+3	022100	44 2441
005751		STRAL*W0RTF	022101	44 2476
005752		ENTSR*00	022102	5073 00
005753		ENTAL*UPEXEC	022103	12 5706
005754		JP*STJPINS INITIALIZE BK 1 JP TO RUNENT + FAIL SUB	022104	34 6151
005755		REMARK*PROGRAM LOCATED IN BANK 1		
005756	CONTINUES3	STRAL*SUTCFS STORE JUMP TO CYCLE FAIL SUBROUTINE	022105	44 5400
005757		ENTAL*INSTK1 SET FLAG INDICATING	022106	12 5360
005760		ADDALK*1 THAT THE PROGRAM HAS BEEN MOVED	022107	71 0001
005761		STRAL*INSTK1 FLAG IN AIMAT	022110	44 5360
005762		ENTAL*STRRUN STR RJP RUNENT	022111	12 5361

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1319

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
005763		ENTSR*00 REFERENCE CURRENT STACK	022112	5073 00
005764		JPALZ*EXEC4A NO	022113	61 2134
005765		ENTICR*04 YES	022114	5072 04
005766		ENTSR*14 REFERENCE AIMAT	022115	5073 14
005767		ENTB*SAVEP FAILING ADDRESS + 1	022116	32 5334
005770		ENTAL*TRUNCT RJP RUNENT	022117	12 5357
005771		ENTSR*14 REFERENCE FIRST STACK OF BANK 1	022120	5073 14
005772		STRALB*0 STR RJP RUNENT AT F.A.+1	022121	45 0000
005773		ENTSR*14 REFERENCE AIMAT	022122	5073 14
005774		ENTAL*STRSTP STR JP STOP/ISOLATION	022123	12 5365
005775		ENTSR*00 REFERENCE CURRENT STACK	022124	5073 00
005776		JPALZ*EXEC4A NO	022125	61 2134
005777		ENTICR*04 YES	022126	5072 04
006000		ENTSR*14 REFERENCE AIMAT	022127	5073 14
006001		ENTB*SAVEP0 FAILING ADDRESS	022130	32 5355
006002		ENTAL*INDEX JP STOP/ISOLATION	022131	12 5366
006003		ENTSR*14 REFERENCE FIRST STACK IN BANK 1	022132	5073 14
006004		STRALB*0 STR JP STOP/ISOLATION AT F.A.	022133	45 0000
006005	EXEC4A	ENTSR*00 REFERENCE CURRENT STACK	022134	5073 00
006006		ENTAU*N000540 TEST THE ADDRESS THE PROGRAM	022135	10 6014
006007		ENTAL*LOWLIMIT WAS STORED IN STACK 00.	022136	12 5662
006010		RJP*MAIN	022137	76 2236
006011	EXEC5	ENTAU*ESR14 MOVE PROGRAM FROM STK 4 -	022140	10 5637
006012		ENTAL*ESR10 TO STK 0	022141	12 5635
006013		ENTB*PRGSIZE1 FIRST BLOCK#7304	022142	32 5641
006014		RJP*MOVE	022143	76 2224
006015		ENTSR*10 REFER TO AIMAT	022144	5073 10
006016		ENTAL*CZER0 CLEAR MOVE FLAG IN AIMAT	022145	12 5375
006017		STRAL*INSTK1	022146	44 5360
006020		ENTSR*00 REFERENCE CURRENT STACK	022147	5073 00
006021		IJP*DOWN TRANSFER CONTROL TO THE PROGRAM	022150	55 2151

8-1320

CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
006022	*			
006023	*			
006024	DOWN	0*EXEC6	022151	022153
006025	*			
006026	*			
006027		NO-OP	022152	5047 00
006030	EXEC6	ENTAL*EXEC7A	022153	12 2201
006031		STRAL*MEDAMAT	022154	44 5650
006032		ENTAL*EXEC7B	022155	12 2202
006033		STRAL*MEDRUNT	022156	44 5653
006034		ENTAL*EXEC7	022157	12 2100
006035	EXEC7	ENTSR*10	022160	5073 10
006036		STRAL*AIMAT+3	022161	44 5003
006037		NO-OP	022162	5047 00
006040		STRAL*RUNENT+3	022163	44 5252
006041		ENTAL*ARUT6	022164	12 5414
006042		STRAL*STORESR+1	022165	44 5707
006043		ENTSR*00	022166	5073 00
006044		ENTAL*EXEC7	022167	12 2100
006045		STRAL*WORTA	022170	44 2326
006046		STRAL*W0RSTPTTN+4	022171	44 2262
006047		STRAL*WORTB	022172	44 2357
006050		NO-OP	022173	5047 00
006051		STRAL*WORTD+3	022174	44 2441
006052		STRAL*WORTF	022175	44 2476
006053		ENTSR*00	022176	5073 00
006054		RJP*XSTACK	022177	76 5505
006055	*			
006056	*			
006057		JP*RESJPINS INITIALIZE BK 0 JP TO RUNENT	022200	34 6162
006060	*			

NOW STORED IN STACK 00.  
ISOLATION IS BEING BYPASSED

CHECK FOR FAILURES THAT CAUSE  
NONEXISTENT ADDRESSES TO  
REFERENCE EXISTING LOCATIONS.

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1321

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1322	006061	EXEC7A	0*AIMAT	022201 005000
	006062	EXEC7B	0*RUNENT	022202 005247
	006063	EXEC7C	0*BITSPICK	022203 022525
	006064	EXEC7D	0*BITSDROP	022204 022535
	006065	EXEC7E	0*AIMAT+40000	022205 045000
CHANGE 7	006066	EXEC7F	0*RUNENT+040000	022206 045247
	006067	PARAMETER	0	022207 000000
	006070	CMAL*N000002	WAS THE MEMORY SIZE SPECIFIED	022210 02 5772
	006071	*	LESS THAN 8K?	
	006072	JPMGR*MEDIA	YES, RETURN TO SET PARAMETERS	022211 67 2000
	006073	*	STOP.	
	006074	CMAL*N000021	WAS THE MEMORY SIZE SPECIFIED	022212 02 6000
	006075	*	GREATER THAN 65K?	
	006076	JPMLEQ*MEDIA	YES, RETURN TO SET PARAMETERS	022213 65 2000
	006077	*	STOP.	
	006100	STRAU*CONTSIZE	NO, STORE CONTROL MEMORY SIZE	022214 46 5622
	006101	*	PARAMETER.	
	006102	ADDALK*7776	SUBTRACT ONE FROM THE NUMBER OF	022215 71 7776
	006103	STRAL*HNS	STACKS TO FORM THE HIGHEST	022216 44 5647
	006104	*	NUMBERED STACK.	
	006105	LSHAL*14		022217 5046 14
	006106	STRAL*HNSX	USED TO INDICATE THE MEMORY SIZE	022220 44 5651
	006107	*	IN DISPLAYS.	
	006110	SLSET*N007777		022221 51 6025
	006111	STRAL*UPLIMIT	THE HIGHEST EXISTING ADDRESS IN	022222 44 5707
	006112	*	MAIN MEMORY.	
	006113	IJP*PARAMETER	EXIT PARAMETER SUBROUTINE.	022223 55 2207
	006114	*		
	006115	*	THE MOVE SUBROUTINE IS USED TO MOVE THE PROGRAM FROM ONE	
	006116	*	STACK TO ANOTHER.	
	006117	*		

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING



SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0103
006120	M0VE	0	022224	000000		
006121		STRAU*M0VE1	022225	46 2227		
006122		STRAL*M0VE2	022226	44 2231		
006123	*					
006124	M0VE1	ENTSR*00	022227	5073 00		
006125	*					
006126		ENTAU0*0	022230	11 0000		
006127	M0VE2	ENTSR*00	022231	5073 00		
006130	*					
006131		STRAUB*0	022232	47 0000		
006132	*					
006133		BJP*M0VE1	022233	73 2227		
006134		ENTSR*00	022234	5073 00		
006135		IJP*M0VE	022235	55 2224		
006136	*					
006137	*	MAIN IS A SUBROUTINE THAT CONTROL THE TESTING				
006140	*	OF A BLOCK OF ADDRESSES IN MAIN MEMORY SPECIFIED				
006141	*	BY LIMITS CONTAINED IN THE AU AND AL REGISTERS				
006142	*	WHEN MAIN IS ENTER.				
006143	*					
006144	MAIN	0	022236	000000		
006145		STRAU*BEGINNING	022237	46 5621		
006146		STRAL*TERMINAL	022240	44 5704		
006147		RJP*ALL0NES	022241	76 2400		
006150		RJP*ALLZER0S	022242	76 2447		
006151		ENTAL*PARITYEVN	022243	12 5664		
006152		RJP*W0RSTPTTN	022244	76 2256		
006153	*					
006154	*					
006155		ENTAL*PARITY0DD	022245	12 5665		

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1323

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
006156		RJP*W0RSTPTTN TEST ADDRESS BLOCK USING THE	022246	76 2256
006157	*	SKIP 0N EVEN PARITY W0RST		
006160	*	PATTERN.		
006161		RJP*ALL0NES TEST ALL ADDRESSES IN THE BLOCK	022247	76 2400
006162	*	WITH A 777777 PATTERN.		
006163		RJP*ALLZER0S TEST ALL ADDRESSES IN THE BLOCK	022250	76 2447
006164	*	WITH A 000000 PATTERN.		
006165		ENTAL*MAINRY SAVE ENTRY EQUAL	022251	12 5102
006166		CMAL*MAIN LAST ENTRY	022252	02 2236
006167		JPEQ*MEMERC YES	022253	61 5071
006170		IJP*MAIN EXIT THE MAIN SUBROUTINE	022254	55 2236
006171	*			
006172	*	W0RSTPTTN USES A W0RST PATTERN T0 TEST THE BLOCK 0F		
006173	*	ADDRESSES SPECIFIED BY THE LIMITS STORED IN BEGINNING AND		
006174	*	TERMINAL. THE W0RST PATTERN IS DEFINED BY A PARITY MASK		
006175	*	(PARITYMSK EQUALS 005415< WHICH IS USED T0 CHECK EACH		
006176	*	ADDRESS AND EITHER 000000 0R 777777 IS WRITTEN INT0 IT,		
006177	*	DEPENDING 0N THE PARITY. TW0 W0RST PATTERNS ARE		
006200	*	GENERATED 0NE BY USING SKIP 0N EVEN PARITY (SKPEVN<		
006201	*	INSTRUCTIONS) AND THE 0THER, THE 0MPLEMENT 0F THE FIRST,		
006202	*	BY USING SKIP 0N 0DD PARITY (SKP0DD< INSTRUCTIONS.		
006203	*			
006204	INSTK0	0	022255	000000
006205	W0RSTPTTN	0	022256	000000
006206	STRAL*H0LDA	H0LD SELECTED PARITY	022257	44 5652
006207	ENTAL*MAIN	MEMORY TEST IN STK 6	022260	12 2236
006210	ADDALK*7774	SUBTRACT 3 FROM ENTRY	022261	71 7774
006211	ENTSR*10	REFERENCE STACK 0	022262	5073 10
006212	STRAL*SUTCFS	STORAGE IN AIMAT	022263	44 5400
006213	ENTSR*00	REFERENCE CURRENT STACK	022264	5073 00
006214	N0=0P		022265	5047 00

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CHANGE 7

NAVFSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
006215	WORSTB	ENTICR*1 ACTIVATE B1	022266	5072 01
006216		ENTAL*HOLDA RESTORE SELECTED PARITY	022267	12 5652
006217		STRAL*PARTYSKP1 PRESTORE THE SELECTED PARITY	022270	44 2276
006220		STRAL*PARTYSKP2 INSTRUCTION (SKP0DD OR SKPEVN<.	022271	44 2313
006221		ENTAU*PARITYMSK WORST PATTERN PARITY MASK	022272	10 5663
006222		ENTB*BEGINNING SET THE B1 REGISTER TO THE FIRST	022273	32 5621
006223	*	ADDRESS IN THE BLOCK OF		
006224	*	ADDRESSES TO BE TESTED.		
006225	WORST1	ENTSR*10 SEE NOTE 1 IN APPENDIX A.	022274	5073 10
006226		ENTAL*0001 NEXT TEST ADDRESS TO THE AL	022275	12 0001
006227	*	REGISTER.		
006230	PARTYSKP1	SKPEVN*0 IS THE PARITY CONDITION (SKPEVN	022276	5055 00
006231	*	OR SKIP0DD< SATISFIED?		
006232		JP*WORST2 NO, GO WRITE 77777 INTO THE	022277	34 2303
006233	*	ADDRESS.		
006234		ENTALK*0000 YES, WRITE 000000 INTO THE	022300	70 0000
006235		STRALB*0000 ADDRESS.	022301	45 0000
006236		JP*WORST3	022302	34 2305
006237	WORST2	ENTALK*7777	022303	70 7777
006240		STRALB*0000 WRITE 77777 INTO THE ADDRESS.	022304	45 0000
006241	WORST3	ENTSR*00 SEE NOTE 2 IN APPENDIX A.	022305	5073 00
006242		BSK*TERMINAL IS THE WORST PATTERN COMPLETED?	022306	56 5704
006243		JP*WORST1 NO, WRITE IN THE NEXT ADDRESS.	022307	34 2274
006244		ENTB*BEGINNING SET THE B REGISTER TO THE FIRST	022310	32 5621
006245	*	ADDRESS IN THE BLOCK OF		
006246	*	ADDRESSES TO BE TESTED.		
006247	WORST4	ENTSR*10 SEE NOTE 1 IN APPENDIX A.	022311	5073 10
006250		ENTAL*0001 NEXT TEST ADDRESS TO THE AL	022312	12 0001
006251	*	REGISTER.		
006252	PARTYSKP2	SKPEVN*0 IS THE PARITY CONDITION (SKPEVN	022313	5055 00

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1325

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1326	006253 *	OR SKP0DD< SATISFIED?		
	006254	JP*W0RST5 NO, GO CHECK THE 777777 PATTERN	022314	34 2337
	006255	ENTALB*0000 DID THE 000000 PATTERN PICKUP	022315	13 0000
	006256 *	BITS IN THIS ADDRESS?		
	006257	JPALZ*W0RST0 NO, GO CHECK THE NEXT ADDRESS.	022316	61 2353
	006260	NO-0P	022317	5047 00
CHANGE 7	006261 *	ISOLATION ROUTINES.		
	006262	JP*W0RTA YES THE 000000 PATTERN PICKED UP	022320	34 2326
	006263 *	BIT(S<, GO TO THE ISOLATION		
	006264 *	SECTION.		
	006265	ENTAU*0001	022321	10 0001
	006266	ENTSR*00 SEE NOTE 2 IN APPENDIX A.	022322	5073 00
	006267	STOP*40	022323	5056 40
	006270 *	THE FAILING ADDRESS IS DISPLAYED		
	006271 *	IN THE AU REGISTER AND THE		
	006272 *	FAILING PATTERN IS DISPLAYED IN		
	006273 *	THE AL REGISTER. THE CORRECT		
	006274 *	PATTERN IS 000000.		
	006275	RJP*MAINTAID	022324	76 2513
	006276	JP*W0RST7	022325	34 2352
	006277 W0RTA	ENTSR*10 REFER TO AIMAT	022326	5073 10
	006300	STRAL*AIMSAV	022327	44 5370
	006301	ENTALK*1 SET INDEX TO 1	022330	70 0001
	006302	STRAL*INDEX	022331	44 5363
	006303	ENTAL*AIMSAV	022332	12 5370
	006304	ENTSR*00	022333	5073 00
	006305	NO-0P	022334	5047 00
	006306	IRJP*MEDAMAT REFER TO AIMAT	022335	30 5650
	006307	LSHAL*0 RJP RUNENT STORED HERE	022336	5046 00
	006310 W0RST5	ENTALB*0000 DID THE 777777 PATTERN DROP ANY	022337	13 0000
	006311 *	BITS?		

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TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0107
006312		JPALZ*W0RST6	022340	61 2343		
006313		CPAL*0	022341	5061 00		
006314		JPALZ*W0RST6	022342	61 2353		
006315	W0RST6	N0=0P	022343	5047 00		
006316	*	IS0LATION ROUTINES.				
006317		JP*W0RTB	022344	34 2357		
006320	*	YES THE 777777 PATTERN DROPPED				
006321	*	BITS G0 TO THE IS0LATION				
006322		SECTION.	022345	10 0001		
006323		ENTAU*0001	022346	5073 00		
006324		ENTSR*00	022347	5061 00		
006325	*	CPAL*0				
006326		STOP*40	022350	5056 40		
006327	*	THE FAILING ADDRESS IS DISPLAYED				
006330	*	IN THE AU REGISTER AND THE				
006331	*	FAILING PATTERN IS DISPLAYED IN				
006332	*	THE AL REGISTER. THE CORRECT				
006333	*	PATTERN IS 777777.				
006334		RJP*MAINTAID	022351	76 2513		
006335	W0RST7	ENTAU*PARITYMSK	022352	10 5663		
006336	W0RST8	BSK*TERMINAL	022353	56 5704		
006337	*	CHECKED?				
006340		JP*W0RST4	022354	34 2311		
006341		N0, CHECK THE NEXT ADDRESS.	022355	5073 00		
006342		SEE NOTE 2 IN APPENDIX A.	022356	34 2370		
006343	W0RTB	JP*W0RTC	022357	5073 10		
006344		ENTSR*10	022360	44 5370		
006345		STRAL*AIMSAV	022361	70 0002		
006346		ENTALK*2 SET INDEX TO 2	022362	44 5363		
006347		STRAL*INDEX				
006347		ENTAL*AIMSAV	022363	12 5370		
006350		ENTSR*00	022364	5073 00		

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TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1327

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
000351		NO=OP	022365	5047 00
000352		IRJP*MEDAMAT REFER TO AIMAT	022366	30 5650
000353		LSHAL*0 RJP RUNENT STORED HERE	022367	5046 00
000354	WORTC	ENTAL*WORTA+10	022370	12 2336
000355		STRAL*L0K+4	022371	44 2375
000356		ENTAL*WORTB+10	022372	12 2367
000357		STRAL*L0K+1	022373	44 2374
000360		NO=OP	022374	5047 00
000361		NO=OP	022375	5047 00
000362		IJP*W0RSTPTTN EXIT	022376	55 2256
000363		NO=OP	022377	5047 00
000364	*			
000365	*	SUBROUTINE ALLONES WRITES A 777777 PATTERN INTO AND READS		
000366	*	IT FROM EACH ADDRESS IN THE ADDRESS BLOCK SPECIFIED BY THE		
000367	*	LIMITS STORED AT BEGINNING AND TERMINAL.		
000370	*			
000371	ALLONES	0	022400	000000
000372		ENTICR*1 ACTIVATE B1.	022401	5072 01
000373		ENTB*BEGINNING SET THE ACTIVE B REGISTER TO THE	022402	32 5621
000374	*	INITIAL ADDRESS OF THE TEST		
000375	*	ADDRESS BLOCK.		
000376		ENTSR*10 SEE NOTE 1 IN APPENDIX A.	022403	5073 10
000377		ENTALK*7777	022404	70 7777
000400		STRALB*0000 STORE 777777 INTO THE ADDRESS.	022405	45 0000
000401		BSK*TERMINAL HAVE ALL THE ADDRESSES IN THE	022406	56 5704
000402	*	BLOCK BEEN WRITTEN INTO?		
000403		JP*L0K=2 NO GO WRITE 777777 INTO THE	022407	34 2405
000404	*	NEXT ADDRESS.		
000405		ENTSR*00 SEE NOTE 1 IN APPENDIX A.	022410	5073 00
000406		ENTB*BEGINNING SET THE ACTIVE B REGISTER TO THE	022411	32 5621
000407	*	INITIAL ADDRESS OF THE TEST		

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	PAGE	0109
			ADDRESS	INSTRUCT
006410	*	ADDRESS BLOCK.		
006411		ENTSR*10	022412	5073 10
006412	ALLONES1	ENTALB*0000	022413	13 0000
006413	*	DID THE 777777 PATTERN DROP ANY		
006414		BITS.		
		YES ALL OF THE BITS.	022414	61 2417
006415		CPAL*0	022415	5061 00
006416		JPALZ*ALLONES3	022416	61 2427
006417	ALLONES2	NO=0P	022417	5047 00
006420	*	ISOLATION ROUTINE.		
006421		JP*W0RTD YES THE 777777 PATTERN DROPPED	022420	34 2436
006422	*	DROPPED BITS, GO TO THE		
006423	*	ISOLATION SECTION.		
006424		ENTAU*0001	022421	10 0001
006425		ENTSR*00	022422	5073 00
006426		CPAL*0	022423	5061 00
006427	*	SEE NOTE 2 IN APPENDIX A.		
006430		COMPLEMENT AL BACK TO ORIGINAL		
006431	*	FAILING PATTERN.		
006432	*	STOP*40	022424	5056 40
006433	*	THE FAILING ADDRESS IS DISPLAYED		
006434	*	IN THE AU REGISTER AND THE		
		FAILING PATTERN IS DISPLAYED IN		
		THE AL REGISTER. THE CORECT		
006435	*	PATTERN IS 777777.		
006436		RJP*MAINTAID	022425	76 2513
006437		ENTSR*10	022426	5073 10
006440	ALLONES3	BSK*TERMINAL	022427	56 5704
006441	*	HAVE ALL THE ADDRESSES BEEN		
006442		TESTED?		
006443		NO, TEST THE NEXT ADDRESS.	022430	34 2413
006444		ENTSR*00	022431	5073 00
		SEE NOTE 2 IN APPENDIX A.		
		IF NO PREVIOUS ERROR INSTR	022432	12 2446
006445		ENTAL*W0RTD+10		
006446		SHOULD BE A NO=0P	022433	44 2434
		STRAL*L0K+1	022434	5047 00
		NO=0P		

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEGNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0110
006447		IJP*ALLONES YES, EXIT FROM THE ALLONES	022435	55 2400		
006450	*	SUBROUTINE.				
006451	W0RTD	ENTSR*00 REFERENCE CURRENT STACK	022436	5073 00		
006452		STRAL*ALSAVM SAVE FAILING BITS	022437	44 5013		
006453		ENTALK*3 SET INDEX TO 3	022440	70 0003		
006454		ENTSR*10	022441	5073 10		
006455		STRAL*INDEX	022442	44 5363		
006456		ENTSR*00 REFERENCE CURRENT STACK	022443	5073 00		
006457		ENTAL*ALSAVM RESTORE AL AND	022444	12 5013		
006460		IRJP*MEDAMAT REFER TO AIMAT	022445	30 5650		
006461		LSHAL*0 RJP RUNENT STORED HERE	022446	5046 00		
006462	*					
006463	*	SUBROUTINE ALLZER0S WRITES A 000000 PATTERN INTO AND				
006464	*	READS IT FROM EACH ADDRESS IN THE ADDRESS BLOCK SPECIFIED				
006465	*	BY THE LIMITS STORED AT BEGINNING AND TERMINAL.				
006466	*					
006467	ALLZER0S	0	022447	000000		
006470		ENTICR*1 ACTIVATE B1.	022450	5072 01		
006471		ENTB*BEGINNING SET THE ACTIVE B REGISTER TO THE	022451	32 5621		
006472	*	INITIAL ADDRESS OF THE TEST				
006473	*	ADDRESS BLOCK.				
006474		ENTSR*10 SEE NOTE 1 IN APPENDIX A.	022452	5073 10		
006475		CLB*0000 STORE 000000 INTO THE ADDRESS.	022453	41 0000		
006476		BSK*TERMINAL HAVE ALL THE ADDRESSES IN THE	022454	56 5704		
006477	*	BLOCK BEEN WRITTEN INTO.				
006500	*	JP*L0K-2 NO GO WRITE 000000 INTO THE	022455	34 2453		
006501	*	NEXT ADDRESS.				
006502		ENTSR*00 SEE NOTE 2 IN APPENDIX A.	022456	5073 00		
006503		ENTB*BEGINNING SET THE ACTIVE B REGISTER TO THE	022457	32 5621		
006504	*	INITIAL ADDRESS OF THE TEST				
006505	*	ADDRESS BLOCK.				

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CHANGE 7

TABLE 8-73 PROGRAM LISTING

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A



SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0111
006506		ENTSR*10	022460	5073 10		
006507	ALLZEROS1	ENTALB*0000	022461	13 0000		
006510	*					
006511		JPALZ*ALLZEROS2	022462	61 2472		
006512		N0=0P	022463	5047 00		
006513	*					
006514		JP*W0RTF	022464	34 2476		
006515	*					
006516	*					
006517		ENTAU*0001	022465	10 0001		
006520		ENTSR*00	022466	5073 00		
006521		STOP*40	022467	5056 40		
006522	*					
006523	*					
006524	*					
006525	*					
006526	*					
006527		RJP*MAINTAID	022470	76 2513		
006530		ENTSR*10	022471	5073 10		
006531	ALLZEROS2	BSK*TERMINAL	022472	56 5704		
006532	*					
006533		JP*ALLZEROS1	022473	34 2461		
006534		ENTSR*00	022474	5073 00		
006535		JP*W0RTG	022475	34 2507		
006536	*					
006537	W0RTF	ENTSR*10	022476	5073 10		
006540		STRAL*AIMSAV	022477	44 5370		
006541		ENTALK*4 SET INDEX TO 4	022500	70 0004		
006542		STRAL*INDEX	022501	44 5363		
006543		ENTAL*AIMSAV	022502	12 5370		
006544		ENTSR*00	022503	5073 00		

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1331

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
006545		NØ-ØP	022504	5047 00
006546		IRJP+MEDAMAT REFER TO AIMAT	022505	30 5650
006547		LSHAL*Ø RJP RUNENT STORED HERE	022506	5046 00
006550	WØRTG.	ENTAL+WØRTF+10	022507	12 2506
006551		STRAL*LØK+1	022510	44 2511
006552		NØ-ØP	022511	5047 00
006553		IJP+ALLZERØS EXIT	022512	55 2447
006554	*			
006555	*	MAINTAID ALLØWS NØN-UNIT INCREMENTATION ØF TEST		
006556	*	ADDRESSES-CHANGE AU TO NØN-SEQUENTIAL ADDRESS IN		
006557	*	THE PRESENT TEST BLOCK.		
006560	*			
006561	MAINTAID	Ø	022513	ØØØØØØ
006562		STRAU+TEMPØRARY	022514	46 5703
006563		ENTAL+TEMPØRARY	022515	12 5703
006564		CMAL+BEGINNING	022516	02 5621
006565		JPMGR+MAINTAID!	022517	67 2524
006566		ENTAL+TERMINAL	022520	12 5704
006567		CMAL+TEMPØRARY	022521	02 5703
006570		JPMGR+MAINTAID!	022522	67 2524
006571		ENTB+TEMPØRARY	022523	32 5703
006572	MAINTAID!	IJP+MAINTAID	022524	55 2513
006573	*			
006574	*	BITSPICK DETERMINES WHETHER ØNE BIT IS PICKED UP ØR MØRE		
006575	*	THAN ØNE BIT IS PICKED UP AND BRANCHES ØN THE RESULTS		
006576	*	TO EITHER ØBPICK (ØNE BIT< ØR TO MØPICK (MØRE THAN ØNE		
006577	*	BIT<.		
006600	*			
006601	BITSPICK	ENTSR*ØØ SEE NØTE 2 IN APPENDIX A.	022525	5073 00
006602		STRAL+FAILPTN SAVE THE FAILING PATTERN.	022526	44 5645
035533		STRB+FAILADR SAVE THE FAILING ADDRESS.	022527	42 5643

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEGNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0113
006604		ENTAU*N000000	022530	10 5770		
006605		SF*45	022531	5044 45		
006606	*					
006607	*					
006610		LSHA*2	022532	5047 02		
006611	*					
006612	*					
006613		JPAUZ*SBPICK	022533	60 2550		
006614	*					
006615	*					
006616		JP*MUPICK	022534	34 2644		
006617	*					
006620	*					
006621	*					
006622	*					
006623	*	BITSDROP DETERMINES WHETHER ONE BIT IS DROPPED OR MORE				
006624	*	THAN ONE BIT IS DROPPED AND BRANCHES ON THE RESULT TO				
006625	*	EITHER SBDROP (ONE BIT< OR TO MUDROP (MORE THAN ONE BIT<.				
006626	BITSDROP	ENTSR*00	022535	5073 00		
006627		CPAL*0	022536	5061 00		
006630	*					
006631		STRAL*FAILPTN	022537	44 5645		
006632		STRB*FAILADR	022540	42 5643		
006633		CPAL*0	022541	5061 00		
006634	*					
006635	*					
006636		JPALZ*MUDROP	022542	61 3357		
006637	*					
006640	*					
006641		ENTAU*N000000	022543	10 5770		
006642		SF*45	022544	5044 45		

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1333

SEGNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1334		FAILING BIT TO BIT POSITION 16 OF THE AU REGISTER.		
006643	*			
006644	*			
006645	LSHA*2	IF ONLY ONE BIT WAS DROPPED THE	022545	5047 02
006646	*	AU REGISTER WILL EQUAL 000000.		
006647	JPAUZ*SBDR0P	IF ONLY ONE BIT WAS DROPPED G0	022546	60 3155
		TO THE SINGLE BIT DROPPED ISOLATION ROUTINE.		
CHANGE 7				
006650	*			
006651	*			
006652	JP*MUDR0P	IF MORE THAN ONE BIT WAS DROPPED	022547	34 3357
006653	*	G0 TO THE MORE THAN ONE BIT		
006654	*	DROPPED ISOLATION ROUTINE.		
006655	*			
006656	*			
006657	*	THE SBPICK ROUTINE IS REFERENCED WHEN A SINGLE BIT PICKED		
		UP FAILURE IS DETECTED BY THE MAIN PROGRAM. SBPICK DETERMINES WHICH STACKS THE FAILURE OCCURS IN. FIRST, SBPICK USES THE SELECT SUBROUTINE TO TEST STACKS 00 THROUGH 07 AND RECORDS THE RESULTS IN THE FORM OF A FLAG ES1. THE PROGRAM THEN BRANCHES TO SBPICKA FOR A MEMORY SIZE OF 8K TO 16K, OR TO SBPICKB FOR A MEMORY SIZE OF 20K TO 32K, OR TO SBPICKC FOR A MEMORY SIZE OF 36K TO 65K.		
006660	*			
006661	*			
006662	*			
006663	*			
006664	*			
006665	*			
006666	*			
006667	*			
006670	*			
006671	SBPICK	ENTAL*N000000 TESTS FOR A SINGLE BIT PICKED UP	022550	12 5770
006672		ENTAU*N007777 IN STK 0 THRU 7	022551	10 6025
006673		RJP*SELECT	022552	76 3666
006674		ENTAL*HNS HIGHEST NUMBERED STACK INDICATES	022553	12 5647
006675	*	THE MEMORY SIZE.		
006676		CMAL*N000004 IF MEMORY SIZE IS 8K, 12K, OR	022554	02 5773
006677		JPMGR*SBPICKA 16K, G0 TO SBPICKA.	022555	67 2561
006700		CMAL*N000010 IF MEMORY SIZE IS 20K, 24K, 28K,	022556	02 5775
006701		JPMGR*SBPICKB OR 32K, G0 TO SBPICKB.	022557	67 2566

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 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0115
006702		JP*SBPICKC	IF MEMORY SIZE IS 36K TO 65K	022560	34	2576
006703	*		GO TO SBPICKC.			
006704	*					
006705	*	SBPICKA EVALUATES THE SINGLE BIT PICKED UP ERROR FLAG FOR				
006706	*	8K, 12K, OR 16K. ON THE BASIS OF THIS EVALUATION THE				
006707	*	PROGRAM BRANCHES TO AN ERROR STOP.				
006710	*					
006711	SBPICKA	ENTAU*N000377	MASKS OUT THE MEMORY SIZE PORTION	022561	10	6010
006712	*		OF THE ERROR FLAG.			
006713		ENTAL*ES1	ERROR FLAG	022562	12	5633
006714		CMSK*N000000	IF NO STACKS 00 THROUGH 07 FAIL	022563	06	5770
006715		JPEQ*N0PICK	GO TEST THE BANK 0 ADDRESS	022564	61	3012
006716	*		TRANSLATION.			
006717		JP*ABIT3	IF AT LEAST ONE BUT NOT ALL BANK	022565	34	3277
006720	*		0 STACKS PICK UP A BIT GO TO			
006721	*		ERROR STOP ABIT3.			
006722	*					
006723	*	SBPICKB EVALUATES THE SINGLE BIT PICKED UP ERROR FLAG FOR				
006724	*	20K, 24K, 28K, OR 32K. ON THE BASIS OF THIS EVALUATION				
006725	*	THE PROGRAM BRANCHES TO AN ERROR STOP.				
006726	*					
006727	SBPICKB	ENTAU*N000377	MASKS OUT THE MEMORY SIZE PORTION	022566	10	6010
006730	*		OF THE ERROR FLAG.			
006731		ENTAL*ES1	ERROR FLAG	022567	12	5633
006732		CMSK*N000000	IF NO STACKS 00 THROUGH 07 FAIL	022570	06	5770
006733		JPEQ*N0PICK	GO TEST THE BANK 0 AND THE	022571	61	3012
006734	*		BANK 1 ADDRESS TRANSLATIONS.			
006735		ENTAU*N000360	IF AT LEAST ONE STACK IN BANK 0	022572	10	6007
006736		CMSK*N000000	PICKS UP A BIT GO TO ERROR	022573	06	5770
006737		JPN0T*ABIT3	STOP ABIT3.	022574	63	3277
006740		JP*ABIT4	IF AT LEAST ONE STACK IN BANK 1	022575	34	3303

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1335

SEONO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1336	006741 *	PICKS UP A BIT G0 TO ERROR		
	006742 *	STOP ABIT4.		
	006743 *			
	006744 *	SBPICKC EVALUATES THE SINGLE BIT PICKED UP ERROR FLAG FOR		
	006745 *	STACKS 00 THROUGH 07 FOR 36K TO 65K OF MEMORY. ON THE		
	006746 *	BASIS OF THIS EVALUATION THE PROGRAM BRANCHES TO AN ERROR		
	006747 *	STOP.		
	006750 *			
	006751 SBPICKC	ENTAU*N000377	MASKS OUT THE MEMORY SIZE PORTION	022576 10 6010
	006752 *		OF THE ERROR FLAG.	
	006753	ENTAL*ES1	ERROR FLAG.	022577 12 5633
	006754	CMSK*N000000	IF NO STACKS 00 THROUGH 07 FAIL	022600 06 5770
	006755	JPEQ*SBPICKD	G0 TEST STACKS 10 THROUGH 17.	022601 01 2610
	006756	CMSK*N000377	IF ALL STACKS 00 THROUGH 07 PICK	022602 06 6010
	006757	JPEQ*ABIT2	UP A BIT G0 TO ERROR STOP	022603 01 3273
	006760 *		ABIT2.	
	006761	ENTAU*N000360	IF AT LEAST ONE STACK IN BANK 0	022604 10 6007
	006762	CMSK*N000000	PICKS UP A BIT G0 TO ERROR	022605 06 5770
	006763	JPN0T*ABIT3	STOP ABIT3.	022606 03 3277
	006764	JP*ABIT4	IF AT LEAST ONE STACK IN BANK 1	022607 04 3303
	006765 *		PICKS UP A BIT G0 TO ERROR STOP	
	006766 *		ABIT4.	
	006767 *			
	006770 *	SBPICKD USES THE SELECT SUBROUTINE TO TEST STACKS 10		
	006771 *	THROUGH 17 AND RECORDS THE RESULTS IN THE FORM OF A FLAG		
	006772 *	ES1. THE PROGRAM THEN BRANCHES TO SBPICKE FOR A MEMORY		
	006773 *	SIZE OF 36K TO 49K, OR TO SBPICKF FOR A MEMORY SIZE OF		
	006774 *	53K TO 65K.		
	006775 *			
	006776 SBPICKD	ENTAL*N000000	TEST FOR A SINGLE BIT PICKED UP	022610 12 5770
	006777	ENTAU*N100000	IN STACKS 10 THROUGH 17.	022611 10 6030

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0117
007000		RJP*SELECT	022612	76	3666	
007001		ENTAL*HNS	022613	12	5647	
007002	*					
007003		CMAL*N000014	022614	02	5776	
007004		JPMGR*SBPICKE	022615	67	2617	
007005		JP*SBPICKF	022616	34	2630	
007006	*					
007007	*					
007010	*	SBPICKE EVALUATES THE SINGLE BIT PICKED UP ERROR FLAG FOR				
007011	*	STACKS 10 THROUGH 17 FOR 36K TO 49K OF MEMORY. ON THE				
007012	*	BASIS OF THIS EVALUATION THE PROGRAM BRANCHES TO AN				
007013	*	ERROR STOP.				
007014	*					
007015	SBPICKE	RJP*FIXPICK	022617	76	6104	
007016	*					
007017		LSHA*0	022620	5047	00	
007020		LSHA*0	022621	5047	00	
007021		LSHA*0	022622	5047	00	
007022	*					
007023	*					
007024		ENTBK*3	022623	36	0003	
007025		CMALB*IBNK2T36K	022624	03	5725	
007026		JPEQ*ABIT56	022625	61	3337	
007027		BJP*L0K-2	022626	73	2624	
007030		JP*ABIT6	022627	34	3313	
007031	*					
007032	*					
007033	*	SBPICKF EVALUATES THE SINGLE BIT PICKED UP ERROR FLAG FOR				
007034	*	STACKS 10 THROUGH 17 FOR 53K TO 65K OF MEMORY. ON THE				

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1337

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1338	007035	* BASIS OF THIS EVALUATION THE PROGRAM BRANCHES TO AN		
	007036	* ERROR STOP.		
	007037	*		
	007040	SBPICKF RJP*FIXPICK	022630	76 6104
	007041	* OF THE ERROR FLAG.		
CHANGE 7	007042	LSHA*0	022631	5047 00
	007043	LSHA*0	022632	5047 00
	007044	LSHA*0	022633	5047 00
	007045	* BANK 2, AND BANK 3 ADDRESS		
	007046	* TRANSLATIONS.		
	007047	ENTBK*3	022634	36 0003
	007050	CMALB*IBK23T53K IF ALL EXISTING STACKS 10 THROUGH	022635	03 5735
	007051	JPEQ*ABIT5 17 PICK UP A BIT 00 TO ERROR	022636	61 3307
	007052	BJP*L0K-2 STOP ABIT5.	022637	73 2635
	007053	ENTAU*N000360 CHECK ONLY BANK 2 STACKS.	022640	10 6007
	007054	CMSK*N000000 IF AT LEAST ONE STACK IN BANK 2	022641	06 5770
	007055	JPN0T*ABIT6 PICKED UP A BIT 00 TO ERROR	022642	63 3313
	007056	* STOP ABIT6.		
	007057	JP*ABIT7 IF AT LEAST ONE STACK IN BANK 3	022643	34 3317
	007060	* PICKED UP A BIT 00 TO ERROR		
	007061	* STOP ABIT7.		
	007062	* THE MUPICK ROUTINE IS REFERENCED WHEN MORE THAN ONE BIT IS		
	007063	* PICKED UP. MUPICK DETERMINES WHICH STACKS THE FAILURE		
	007064	* OCCURS IN. FIRST, MUPICK USES THE SELECT SUBROUTINE TO		
	007065	* TEST STACKS 00 THROUGH 07 AND RECORDS THE RESULTS IN THE		
	007066	* FORM OF AN ERROR FLAG ESI. THE PROGRAM THEN BRANCHES TO		
	007067	* MUPICKA FOR A MEMORY SIZE OF 8K TO 16K, OR TO MUPICKB FOR		
	007070	* A MEMORY SIZE OF 20K TO 32K, OR TO MUPICKC FOR A MEMORY		
	007071	* SIZE OF 32K TO 65K.		
	007072	*		

TABLE 8-73 PROGRAM LISTING  
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SEGN0	LABEL	STATEMENT	ADDRESS	INSTRUCT
007073	*			
007074	MUPICK	ENTAL*N000000	022644	12 5770
007075		ENTAU*N007777	022645	10 6025
007076	*			
007077		RJP*SELECT	022646	76 3666
007100		ENTAL*HNS	022647	12 5647
007101	*			
007102		CMAL*N000004		
007103		JPMGR*MUPICKA	022650	02 5773
007104		CMAL*N000010	022651	07 2655
007105		JPMGR*MUPICKB	022652	02 5775
007106		JP*MUPICKC	022653	07 2662
007107	*		022654	34 2703
007110	*			
007111	*	MUPICKA EVALUATES THE MORE THAN ONE BIT PICKED UP ERROR		
007112	*	FLAG FOR 8K, 12K, OR 16K. ON THE BASIS OF THIS EVALUATION		
007113	*	THE PROGRAM BRANCHES TO AN ERROR STOP.		
007114	*			
007115	MUPICKA	ENTAU*N000377	022655	10 6010
007116	*			
007117		ENTAL*ES1	022656	12 5633
007120		CMSK*N000000	022657	06 5770
007121		JPEG*N0PICK	022660	01 3012
007122	*			
007123		JP*MUBITS	022661	34 2774
007124	*			
007125	*			
007126	*			
007127	*			
007130	*	MUPICKB EVALUTES THE MORE THAN ONE BIT PICKED UP ERROR		

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
007131	*	FLAG FOR 20K, 24K, 28K, OR 32K. ON THE BASIS OF THIS		
007132	*	EVALUATION THE PROGRAM BRANCHES TO AN ERROR STOP.		
007133	*			
007134	MUPICKB	ENTAU+N000377	022662	10 0010
007135	*	MASKS OUT THE MEMORY SIZE PORTION OF THE ERROR FLAG.		
007136		ENTAL+ES1	022663	12 5633
007137		CMSK+N000000	022664	06 5770
007140		JPEQ+N0PICK	022665	01 3012
007141	*	GO TEST THE BANK 0 AND THE BANK 1 ADDRESS TRANSLATIONS.		
007142		CMSK+N000360	022666	06 6007
007143		JPEQ+MUBIT2	022667	01 2772
007144	*	IF ALL STACKS 00 THROUGH 03 PICK UP MORE THAN ONE BIT GO TO ERROR STOP MUBIT2.		
007145		ENTBK+3	022670	36 0003
007146		CMALB+IBNK1T20K	022671	03 5721
007147		JPEQ+MUBIT1	022672	01 2770
007150		BJP+L0K-2	022673	73 2671
007151		ENTAU+N000360	022674	10 6007
007152		CMSK+N000000	022675	06 5770
007153		JPEQ+MUBIT2	022676	01 2772
007154	*	IF ALL EXISTING STACKS 04 THROUGH 07 PICK UP MORE THAN ONE BIT GO TO MUBIT1.		
007155		ENTAU+N000017	022677	10 5777
007156		CMSK+N000000	022700	06 5770
007157		JPEQ+MUBIT2	022701	01 2772
007160	*	IF NO STACKS 00 THROUGH 03 FAIL, THEN AT LEAST ONE BUT NOT ALL EXISTING STACKS 04 THROUGH 07 FAIL GO TO ERROR STOP MUBIT2.		
007161	*	MORE THAN ONE BIT, GO TO ERROR STOP MUBIT2.		
007162		JP+MUBIT1	022702	34 2770
007163	*	IF AT LEAST ONE STACK IN EACH BANK (0 AND 1) FAIL BUT NOT ALL EXISTING STACKS IN BANK 0 AND BANK 1, GO TO ERROR STOP		
007164	*	MUBIT1.		
007165	*			
007166	*			
007167	*			

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEONO	LABEL	STATEMENT	ADDRESS	INSTRUCT
007170	*	MUPICKC EVALUATES THE MORE THAN ONE BIT PICKED UP ERROR		
007171	*	FLAG FOR STACKS 00 THROUGH 07 FOR 30K TO 65K OF MEMORY.		
007172	*	ON THE BASIS OF THIS EVALUATION THE PROGRAM BRANCHES TO		
007173	*	TEST STACKS 10 THROUGH 17 OR TO AN ERROR STOP.		
007174	*			
007175	MUPICKC	ENTAU*N000377	022703	10 0010
007176	*			
007177		ENTAL*ES1	022704	12 5633
007200		CMSK*N000000	022705	06 5770
007201		JPEQ*MUPICKD	022706	01 2723
007202	*			
007203	*			
007204		CMSK*N000377	022707	06 0010
007205		JPEQ*MUBIT7	022710	01 3004
007206		CMSK*N000360	022711	06 0007
007207		JPEQ*MUBIT2	022712	01 2772
007210	L1502	JP*FIXMPCKC	022713	34 0101
007211	*	JPEQ*MUBIT1		
007212		ENTAU*N000360	022714	10 0007
007213		CMSK*N000000	022715	06 5770
007214		JPEQ*MUBIT2	022716	01 2772
007215	*			
007216		ENTAU*N000017	022717	10 5777
007217		CMSK*N000000	022720	06 5770
007220		JPEQ*MUBIT2	022721	01 2772
007221	*			
007222		JP*MUBIT1	022722	34 2770
007223	*			
007224	*			
007225	*			
007226	*			

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1341

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
007227	*			
007230	*	MUPICKD USES THE SELECT SUBROUTINE TO TEST STACKS 10		
007231	*	THROUGH 17 AND RECORDS THE RESULTS IN THE FORM OF A FLAG		
007232	*	ESI. THE PROGRAM THEN BRANCHES TO MUPICKE FOR A MEMORY		
007233	*	SIZE OF 36K TO 49K, OR TO MUPICKF FOR A MEMORY SIZE OF		
007234	*	53K TO 65K.		
007235	*			
007236	MUPICKD	ENTAL*N000000	022723	12 5770
007237		ENTAU*N100000	022724	19 6030
007240		RJP*SELECT	022725	76 3686
007241		ENTAL*HNS	022726	12 5647
007242	*			
007243		CMAL*N000014	022727	02 5776
007244		JPMGR*MUPICKE	022730	67 2732
007245		JP*MUPICKF	022731	34 2743
007246	*			
007247	*			
007250	*	MUPICKE EVALUATES THE MORE THAN ONE BIT PICKED UP ERROR		
007251	*	FLAG FOR STACKS 10 THROUGH 17 FOR 36K TO 49K OF MEMORY.		
007252	*	ON THE BASIS OF THIS EVALUATION THE PROGRAM BRANCHES TO		
007253	*	AN ERROR STOP.		
007254	*			
007255	MUPICKE	RJP*FIXPICK	022732	76 6104
007256	*			
007257		LSHA*0	022733	5047 00
007260		LSHA*0	022734	5047 00
007261		LSHA*0	022735	5047 00
007262	*			
007263	*	AND BANK 2 ADDRESS		
		TRANSLATIONS.		
007264		ENTBK*3	022736	36 0003
007265		CMALB*IBNK2T36K	022737	03 5725

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
007266		JPEQ*MUBIT9	022740	61 3010
007267	*			
007270	*			
007271		BJP*L0K=2	022741	73 2737
007272		JP*MUBIT6	022742	34 3002
007273	*			
007274	*			
007275	*			
007276	*			
007277	*			
007300	*	MUPICKF EVALUATES THE MORE THAN ONE BIT PICKED UP ERROR		
007301	*	FLAG FOR STACKS 10 THROUGH 17 FOR 53K TO 65K OF MEMORY.		
007302	*	ON THE BASIS OF THIS EVALUATION THE PROGRAM BRANCHES TO		
		AN ERROR STOP.		
007303	*			
007304	MUPICKF	RJP*FIXPICK	022743	76 6104
007305	*			
007306		LSHA*0	022744	5047 00
007307		LSHA*0	022745	5047 00
007310		LSHA*0	022746	5047 00
007311	*			
007312	*	BANK 2, AND BANK 3 ADDRESS		
		TRANSLATIONS.		
007313		ENTBK*3	022747	36 0003
007314		CMALB*IBK23T53K	022750	03 5735
007315		JPEQ*MUBIT8	022751	61 3006
007316	*			
007317	*			
007320		BJP*L0K=2	022752	73 2750
007321		CMSK*N000360	022753	06 6007
007322		JPEQ*MUBIT5	022754	61 3000
007323	*			
007324		ENTBK*3	022755	36 0003

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 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1344	007325	CMALB*IBNK3T53K	022756	03 5731
	007326	JPEQ*MUBIT4	022757	61 2776
	007327	*		
	007330	*		
	007331	BJP*L0K=2	022760	73 2756
CHANGE 7	007332	ENTAU*N000360	022761	10 6007
	007333	CMSK*N000000	022762	06 5770
	007334	JPEQ*MUBIT5	022763	61 3000
	007335	*		
	007336	ENTAU*N000017	022764	10 5777
	007337	CMSK*N000000	022765	06 5770
	007340	JPEQ*MUBIT5	022766	61 3000
	007341	*		
	007342	JP*MUBIT4	022767	34 2776
	007343	*		
	007344	*		
	007345	*		
	007346	*		
	007347	*		
	007350	*		
	007351	*		
	007352	MUBIT1 STOP*40	022770	5056 40
	007353	*		
	007354	IJP*RECYCLE	022771	55 5677
	007355	MUBIT2 STOP*40	022772	5056 40
	007356	*		
	007357	IJP*RECYCLE	022773	55 5677
	007360	MUBIT3 STOP*40	022774	5056 40
	007361	*		
	007362	*		
	007363	IJP*RECYCLE	022775	55 5677

IF ALL EXISTING STACKS 14 THROUGH 17 PICK UP MORE THAN ONE BIT GO TO ERROR STOP MUBIT4.

IF NO STACKS 10 THROUGH 13 FAIL THEN AT LEAST ONE BUT NOT ALL STACKS 14 THROUGH 17 FAIL, GO TO ERROR STOP MUBIT5.  
 IF NO STACKS 14 THROUGH 17 FAIL THEN AT LEAST ONE BUT NOT ALL STACKS 10 THROUGH 13 FAIL, GO TO ERROR STOP MUBIT5.

IF AT LEAST ONE STACK IN EACH BANK (2 AND 3) FAIL BUT NOT ALL EXISTING STACKS IN BANK 2 AND BANK 3 FAILED GO TO ERROR STOP MUBIT4.

THE FOLLOWING ERROR STOPS SERVE THE MUPICK SUBROUTINE.

REPLACE 6J33C, CARD TYPE 0900. RECYCLE THE MEMORY TEST.

REPLACE 6J35C, CARD TYPE 0900. RECYCLE THE MEMORY TEST.

AND 6J35C, CARD TYPE 0900. RECYCLE THE MEMORY TEST.

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0125
007364	MUBIT4	STOP*40	022776	5056 40		
007365	*	REPLACE 5J33C, CARD TYPE 0900.				
007366		IJP*RECYCLE	022777	55 5677		
007367	MUBIT5	STOP*40	023000	5056 40		
007370	*	REPLACE 5J35C, CARD TYPE 0900.				
007371		IJP*RECYCLE	023001	55 5677		
007372	MUBIT6	STOP*40	023002	5056 40		
007373	*	REPLACE 5J33C, CARD TYPE 0900				
007374	*	AND 5J35C, CARD TYPE 0900.				
007375		IJP*RECYCLE	023003	55 5677		
007376	MUBIT7	STOP*40	023004	5056 40		
007377	*	SCOPE TO DETERMINE WHICH OF THE				
007400	*	FOLLOWING HAS FAILED				
007401	*	(1< 5J25C (50MT21,P=135<,				
007402	*	CARD TYPE 0260.				
007403	*	(2< 5J27C (50MT26,50MT27,				
007404	*	50MT22,51MT22,P=135<,				
007405	*	CARD TYPE 0280.				
007406	*	(3< 5J33C (52MT27,P=135<,				
007407	*	CARD TYPE 0900.				
007410		IJP*RECYCLE	023005	55 5677		
007411	MUBIT8	STOP*40	023006	5056 40		
007412	*	SCOPE TO DETERMINE WHICH OF THE				
007413	*	FOLLOWING HAS FAILED.				
007414	*	(1< 5J25C (50MT21,P=135<,				
007415	*	CARD TYPE 0260.				
007416	*	(2< 5J27C (50MT26,50MT27,				
007417	*	50MT22,51MT22,P=135<,				
007420	*	CARD TYPE 0280.				
007421	*	(3< 5J33C (52MT27,P=135<,				
007422	*	CARD TYPE 0900.				

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 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1345

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1346		IJP*RECYCLE	023007	55 5677
	MUBIT9	STOP*40	023010	5056 40
	*	SCOPE TO DETERMINE WHICH OF THE		
	*	FOLLOWING HAS FAILED		
	*	(1< 5J25C (50MT21,P=135<,		
	*	CARD TYPE 0260.		
CHANGE 7	*	(2< 5J27C (50MT26,50MT27,		
	*	50MT22,51MT22,P=135<,		
	*	CARD TYPE 0280.		
	*	(3< IF NEITHER OF THE ABOVE FAIL		
	*	REPLACE 5J33C, CARD TYPE		
	*	0900 AND 5J35C CARD TYPE		
	*	0900.		
		IJP*RECYCLE	023011	55 5677
	N0PICK	RJP*SPADR	023012	76 3046
		ENTAL*EC2	023013	12 5630
		ENTAU*N170000	023014	10 6033
		CMAL*EC1	023015	02 5627
	*	JPN0T*N0PICK4	023016	63 3041
	*	TRANSLATION NEXT.		
		CMSK*HNSX	023017	06 5651
	*	YES. IS THE FAILING STACK		
		THE HIGHEST EXISTING STACK?		
		JPN0T*N0PICK3	023020	63 3035
	*	NO, GO TO DISPLAY THE EC1 AND		
		EC2 ERROR FLAGS.		
		ENTAL*HNS	023021	12 5647
	*	YES. IS THE FAILING STACK THE		
	*	ONLY EXISTING STACK IN THE		
	*	BANK?		
		CMAL*N000004	023022	02 5773
		JPN0T*N0PICK1	023023	63 3026

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING



SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0127
007461		RJP*ADRXLAT	023024	76	3747	
007462	*					
007463		JP*N0PICK3	023025	34	3035	
007464	*					
007465	N0PICK1	CMAL*N000010	023026	02	5775	
007466		JPN0T*N0PICK2	023027	63	3032	
007467		RJP*ADRXLAT	023030	76	3747	
007470	*					
007471		JP*N0PICK3	023031	34	3035	
007472	*					
007473	N0PICK2	CMAL*N000014	023032	02	5776	
007474		JPN0T*N0PICK3	023033	63	3035	
007475		RJP*ADRXLAT	023034	76	3747	
007476	*					
007477	*					
007500	N0PICK3	ENTAU*EC1	023035	10	5627	
007501		ENTAL*EC2	023036	12	5630	
007502		STOP*40	023037	5056	40	
007503	*					
007504	*					
007505	*					
007506		IJP*RECYCLE	023040	55	5677	
007507	N0PICK4	RJP*ADRXLAT	023041	76	3747	
007510	*					
007511		ENTAU*FAILADR	023042	10	5643	
007512		ENTAL*FAILPTTN	023043	12	5645	
007513		STOP*40	023044	5056	40	
007514	*					
007515	*					
007516	*					
007517	*					

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

TABLE 8-73 PROGRAM LISTING

CHANGE 7

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ADDRESS INSTRUCT

SEQNO LABEL STATEMENT

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CHANGE 7

007520	*		CONTAINS THE FAILING ADDRESS			
007521	*		AND THE AL REGISTER CONTAINS			
007522	*		THE FAILING PATTERN. THE			
007523	*		CORRECT PATTERN IS 000000.			
007524		IJP*RECYCLE	RECYCLE THE MEMORY TEST.	023045	55	5677
007525	SPADR	0		023046		000000
007526		ENTSR*00	DEACTIVATE SR.	023047	5073	00
007527		ENTAL*N777777		023050	12	0037
007530		STRAL*EC2	INITIATE THE ES1 AND ES2 ERROR	023051	44	5030
007531		CL*EC1	DISPLAYS.	023052	40	5027
007532		ENTICR*1	ACTIVATE B1.	023053	5072	01
007533		ENTAU*PARITYMSK	PARITY MASK TO AU.	023054	10	5003
007534		ENTB*BEGINNING	FIRST ADDRESS OF FAILING BLOCK	023055	32	5021
007535	*		TO B1.			
007536	SPADR1	ENTSR*10	SEE NOTE 1 IN APPENDIX A.	023056	5073	10
007537		ENTAL*0001	NEXT TEST ADDRESS TO AL.	023057	12	0001
007540		SKPEVN*0	IS THE PARITY EVEN?	023060	5055	00
007541		JP*SPADR2	NO, GO TO WRITE A 777777 PATTERN	023061	34	5064
007542	*		INTO THE ADDRESS.			
007543		CLB*0000	YES, WRITE A 000000 PATTERN INTO	023062	41	0000
007544	*		THE ADDRESS.			
007545		JP*SPADR3		023063	34	5066
007546	SPADR2	ENTALK*7777	WRITE A 777777 PATTERN INTO THE	023064	70	7777
007547		STRALB*0000	CURRENT ADDRESS.	023065	45	0000
007550	SPADR3	ENTSR*00	SEE NOTE 2 IN APPENDIX A.	023066	5073	00
007551		BSK*TERMINAL	HAVE ALL THE ADDRESSES IN THE	023067	56	5704
007552	*		BLOCK BEEN WRITTEN INTO?			
007553		JP*SPADR1	NO, WRITE INTO THE NEXT ADDRESS.	023070	34	5056
007554		ENTB*BEGINNING	FIRST ADDRESS OF FAILING BLOCK	023071	32	5021
007555	*		TO B1.			
007556	SPADR4	ENTSR*10	SEE NOTE 1 IN APPENDIX A.	023072	5073	10

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEGN0	LABEL	STATEMENT	ADDRESS	INSTRUCT
007557		ENTAL*0001	023073	12 0001
007560	*			
007561		SKPEVN*0	023074	5055 00
007562		JP*SPADR5	023075	34 3101
007563		ENTALB*0000	023076	13 0000
007564	*			
007565		JPALZ*SPADR7	023077	61 3115
007566		JP*SPADR6	023100	34 3105
007567	SPADR5	ENTALB*0000	023101	13 0000
007570		ENTSR*00	023102	5073 00
007571		CMAL*N777777	023103	02 0037
007572		JPEQ*SPADR7	023104	61 3115
007573	SPADR6	ENTSR*00	023105	5073 00
007574	*			
007575	*			
007576		STR0*TEMPORARY	023106	42 5703
007577		ENTAL*TEMPORARY	023107	12 5703
007600		SLSET*EC1	023110	51 5627
007601		STRAL*EC1	023111	44 5627
007602	*			
007603		ENTAL*TEMPORARY	023112	12 5703
007604		SLCL*EC2	023113	52 5630
007605		STRAL*EC2	023114	44 5630
007606	*			
007607	SPADR7	BSK*TERMINAL	023115	56 5704
007610	*			
007611		JP*SPADR4	023116	34 3072
007612		ENTSR*00	023117	5073 00
007613		ENTAL*EC1	023120	12 5627
007614		JPALZ*SPADR9	023121	61 3145
007615	*			

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
007616		ENTAU*N770000	023122	10 6036
007617		CMSK*EC2	023123	06 5630
007620		JPN0T*SPADR7A	023124	63 3132
007621		RSHAL*14	023125	5042 14
007622	*			
007623		CMAL*N000004	023126	02 5773
007624		JPN0T*SPADR9	023127	63 3145
007625	*			
007626		CMAL*HNS	023130	02 5647
007627		JPN0T*SPADR9	023131	63 3145
007630	*			
007631	SPADR7A	ENTAL*EC1	023132	12 5627
007632		ENTAU*N007777	023133	10 6025
007633		CMSK*N777777	023134	06 6037
007634		JPN0T*SPADR8	023135	63 3141
007635	*			
007636		ENTAL*EC2	023136	12 5630
007637		CMSK*N000000	023137	06 5770
007640		JPEG*SPADR9	023140	61 3145
007641	*			
007642	SPADR8	ENTAU*EC1	023141	10 5627
007643		ENTAL*EC2	023142	12 5630
007644		STOP*40	023143	5056 40
007645	*			
007646	*			
007647	*			
007650	*			
007651		IJP*RECYCLE	023144	55 5677
007652	SPADR9	IJP*SPADR	023145	55 3046
007653		RESERV*07	023146	000000
007654	*			

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
007655	*	THE SBDROP SUBROUTINE IS REFERENCED WHEN A SINGLE BIT		
007656	*	DROPPED FAILURE IS DETECTED BY THE MAIN PROGRAM. SBDROP		
007657	*	DETERMINES WHICH STACKS THE FAILURE OCCURS IN. FIRST,		
007660	*	SBDROP USES THE SELECT SUBROUTINE TO TEST STACKS 00		
007661	*	THROUGH 07 AND RECORDS THE RESULTS IN THE FORM OF A FLAG		
007662	*	ES1. THE PROGRAM THEN BRANCHES TO SBDROPA FOR A MEMORY		
007663	*	SIZE OF 8K TO 16K, OR TO SBDROPB FOR A MEMORY SIZE OF		
007664	*	20K TO 32K, OR TO SBDROPB FOR A MEMORY SIZE OF 36K TO 65K.		
007665	*			
007666	SBDROP	ENTAL*N777777 TESTS FOR A SINGLE BIT DROPPED	023155	12 6037
007667		ENTAU*N007777 IN STK 0 THRU 7	023156	10 6025
007670		RJP*SELECT	023157	76 3666
007671		ENTAL*HNS HIGHEST NUMBERED STACK INDICATES	023160	12 5647
007672	*	THE MEMORY SIZE.		
007673		CMAL*N000004 IF MEMORY SIZE IS 8K, 12K, OR	023161	02 5773
007674		JPMGR*SBDROPA 16K, GO TO SBDROPA.	023162	67 3166
007675		CMAL*N000010 IF MEMORY SIZE IS 20K, 24K, 28K,	023163	02 5775
007676		JPMGR*SBDROPB OR 32K, GO TO SBDROPB.	023164	67 3174
007677		JP*SBDROPB IF MEMORY SIZE IS 36K TO 65K,	023165	34 3214
007700	*	GO TO SBDROPB.		
007701	*			
007702	*	SBDROPA EVALUATES THE SINGLE BIT DROPPED ERROR FLAG FOR		
007703	*	8K, 12K, OR 16K. ON THE BASIS OF THIS EVALUATION THE		
007704	*	PROGRAM BRANCHES TO AN ERROR STOP.		
007705	*			
007706	SBDROPA	ENTAL*ES1 ERROR FLAG	023166	12 5633
007707		ENTBK*2	023167	36 0002
007710	L1757	CMALB*SN0FLT0 CHANGES TO INSTRUCTIONS WHICH	023170	03 6040
007711		JPEQ*N0DR0P 03 FAIL GO TEST THE BANK 0	023171	61 3663
007712		BJP*L0K-2 ADDRESS TRANSLATION.	023172	73 3170
007713		JP*ABIT3 IF AT LEAST ONE BUT NOT ALL	023173	34 3277

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1351

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
007714	*	STACKS IN BANK 0 DROP A BIT		
007715	*	G0 TO ERROR STOP ABIT3.		
007716	*			
007717	*	SBDROPB EVALUATES THE SINGLE BIT DROPPED ERROR FLAG FOR		
007720	*	20K, 24K, 28K, OR 32K. ON THE BASIS OF THIS EVALUATION		
007721	*	THE PROGRAM BRANCHES TO AN ERROR STOP.		
007722	*			
007723	SBDROPB	ENTAU*N000377	MASKS OUT THE MEMORY SIZE PORTION	023174 10 6010
007724	*		OF THE ERROR FLAG.	
007725		ENTAL*ES1	ERROR FLAG.	023175 12 5633
007726		CMSK*N000017	IF STACKS 04 THROUGH 07 DROP A	023176 06 5777
007727		JPEQ*ABIT24	BIT G0 TO ERROR STOP ABIT24.	023177 61 5327
007730		ENTBK*3		023200 36 0003
007731		CMALB*SBNK0T20K	IF STACKS 00 THROUGH 03 DROP A	023201 03 5760
007732		JPEQ*ABIT23	BIT G0 TO ERROR STOP ABIT23.	023202 61 5323
007733		BJP*L0K=2		023203 73 5201
007734		ENTBK*3		023204 36 0003
007735	L1774	CMALB*SN0FLT20		023205 03 6043
007736		JPEQ*N0DR0P	07 FAIL G0 TEST THE BANK 0 AND	023206 61 5663
007737		BJP*L0K=2	BANK 1 ADDRESS TRANSLATIONS.	023207 73 5205
007740		ENTAU*N000360	IF AT LEAST ONE STACK BUT NOT	023210 10 6007
007741		CMSK*N000000	ALL STACKS IN BANK 0	023211 06 5770
007742		JPN0T*ABIT3	DROP A BIT G0 TO ERROR STOP	023212 63 5277
007743	*		ABIT3.	
007744		JP*ABIT4	IF AT LEAST ONE STACK BUT NOT	023213 34 5303
007745	*		ALL STACKS IN BANK 1 DROP A	
007746	*		BIT G0 TO ERROR STOP ABIT4.	
007747	*			
007750	*	SBDROPB EVALUATES THE SINGLE BIT DROPPED ERROR FLAG FOR		
007751	*	STACKS 00 THROUGH 07 FOR 36K TO 65K OF MEMORY. ON THE		
007752	*	BASIS OF THIS EVALUATION THE PROGRAM BRANCHES TO AN		

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
007753	*	ERROR STOP.		
007754	*			
007755	SBDROP	ENTAU*N000377	023214	10 6010
007756	*			
007757		ENTAL*ES1	023215	12 5633
007760		CMSK*N000000	023216	06 5770
007761		JPEQ*SBDROPD	023217	61 3231
007762		CMSK*N000360	023220	06 6007
007763		JPEQ*ABIT23	023221	61 3323
007764		CMSK*N000017	023222	06 5777
007765		JPEQ*ABIT24	023223	61 3327
007766		CMSK*N000377	023224	06 6010
007767		JPEQ*ABIT28	023225	61 3333
007770		ENTAU*N000360	023226	10 6007
007771		CMSK*N000000	023227	06 5770
007772		JP*ABIT4	023230	34 3303
007773	*			
007774	*			
007775	*			
007776	*	SBDROPD USES THE SELECT SUBROUTINE TO TEST STACKS 10		
007777	*	THROUGH 17 AND RECORDS THE RESULTS IN THE FORM OF A FLAG		
010000	*	ES1. THE PROGRAM THEN BRANCHES TO SBDROPE FOR A MEMORY		
010001	*	SIZE OF 36K TO 40K, OR TO SBDROPF FOR A MEMORY SIZE OF		
010002	*	53K TO 65K.		
010003	*			
010004	SBDROPD	ENTAL*N777777	023231	12 6037
010005		ENTAU*N100000	023232	10 6030
010006		RJP*SELECT	023233	76 3666
010007		ENTAL*HNS	023234	12 5647
010010	*	THE MEMORY SIZE.		
010011		CMAL*N000014	023235	02 5776

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7  
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SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
010012		JPMGR*SBDR0PE	OR 49K, GO TO SBDR0PE.	023236 67 3240
010013		JP*SBDR0PF	IF MEMORY SIZE IS 53K, 57K, 61K,	023237 34 3251
010014	*		OR 65K, GO TO SBDR0PF.	
010015	*			
010016	*	SBDR0PE EVALUATES THE SINGLE BIT DROPPED ERROR FLAG FOR		
010017	*	STACKS 10 THROUGH 17 FOR 36K TO 49K OF MEMORY. ON THE		
010020	*	BASIS OF THIS EVALUATION THE PROGRAM BRANCHES TO AN		
010021	*	ERROR STOP.		
010022	*			
010023	SBDR0PE	ENTAU*N000377	MASKS OUT THE MEMORY SIZE PORTION	023240 10 6010
010024	*		OF THE ERROR FLAG.	
010025		ENTAL*ES1	ERROR FLAG.	023241 12 5633
010026		CMSK*N000377	IF STACKS 10 THROUGH 17 DROP A	023242 06 6010
010027		JPEQ*ABIT568	BIT GO TO ERROR STOP ABIT568.	023243 61 3353
010030		ENTBK*3		023244 36 0003
010031	L2034	CMALB*SN0FLT36		023245 03 6047
010032		JPEQ*N0DR0P	13 FAIL GO TEST THE BANK 0,	023246 61 3663
010033		BJP*L0K=2	BANK 1, AND BANK 2 ADDRESS	023247 73 3245
010034	*		TRANSLATIONS.	
010035		JP*ABIT6	IF AT LEAST ONE BUT NOT ALL	023250 34 3313
010036	*		STACKS IN BANK 2 DROP A BIT	
010037	*		GO TO ERROR STOP ABIT6.	
010040	*			
010041	*	SBDR0PF EVALUATES THE SINGLE BIT DROPPED ERROR FLAG FOR		
010042	*	STACKS 10 THROUGH 17 FOR 53K TO 65K OF MEMORY. ON THE		
010043	*	BASIS OF THIS EVALUATION THE PROGRAM BRANCHES TO AN		
010044	*	ERROR STOP.		
010045	*			
010046	SBDR0PF	ENTAU*N000377	MASKS OUT THE MEMORY SIZE PORTION	023251 10 6010
010047	*		OF THE ERROR FLAG.	
010050		ENTAL*ES1	ERROR FLAG.	023252 12 5633

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CHANGE 7

TABLE 8-73 PROGRAM LISTING

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A



SEGNO	LABEL	STATEMENT	ADDRESS	PAGE	INSTRUCT	0135	
010051		CMSK*N000017	IF STACKS 14 THROUGH 17 DROP A	023253	06	5777	
010052		JPEQ*ABIT57	BIT GO TO ERROR STOP ABIT57.	023254	61	3343	
010053		CMSK*N000377	IF STACKS 10 THROUGH 17 DROP A	023255	06	6010	
010054		JPEQ*ABIT58	BIT GO TO ERROR STOP ABIT58.	023256	61	3347	
010055		ENTBK*3		023257	36	0003	
010056	L2047	CMALB*SN0FLT53		023260	03	6053	
010057		JPEQ*N0DR0P	17 FAIL GO TEST THE BANK 0,	023261	61	3663	
010060		BJP*L0K-2	BANK 1, BANK 2, AND BANK 3	023262	73	3260	
010061	*		ADDRESS TRANSLATIONS.				
010062		ENTBK*3		023263	36	0003	
010063		CMALB*SBNK2T53K	IF STACKS 10 THROUGH 13 DROP A	023264	03	5764	
010064		JPEQ*ABIT56	BIT GO TO ERROR STOP ABIT56.	023265	61	3337	
010065		BJP*L0K-2		023266	73	3264	
010066		ENTAU*N000360	IF AT LEAST ONE BUT NOT ALL	023267	10	6007	
010067		CMSK*N000000	STACKS IN BANK 2 DROP A BIT	023270	06	5770	
010070		JPN0T*ABIT6	GO TO ERROR STOP ABIT6.	023271	63	3313	
010071		JP*ABIT7	IF AT LEAST ONE BUT NOT ALL	023272	34	3317	
010072	*		STACKS IN BANK 2 DROP A BIT				
010073	*		GO TO ERROR STOP ABIT7.				
010074	*						
010075	*	THE FOLLOWING ERROR STOPS SERVE BOTH SBPICK AND SBDR0P.					
010076	*						
010077	ABIT2	ENTAU*ES1	ERROR CODE TO AU.	023273	10	5633	
010100		ENTAL*FAILPTTN	FAILING PATTERN TO AL.	023274	12	5645	
010101		STOP*40		023275	5056	40	
010102	*		REPLACE 60ZXX AND 70ZXX(BOTH ON				
010103	*		THE SAME CARD< ON CHASSIS 6.				
010104	*		WHERE XX REPRESENTS THE FAILING				
010105	*		BIT POSITION. REFER TO PLATE				
010106	*		P-175 IN THE LOGIC PRINTS.				
010107		IJP*RECYCLE	RECYCLE THE MEMORY TEST.	023276	55	5677	

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7

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SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
010110	ABIT3	ENTAU*ES1	023277	10 5633
010111		ENTAL*FAILPTTN	023300	12 5645
010112		STOP*40	023301	5056 40
010113	*	REPLACE 20ZXX ON CHASSIS 6, WHERE XX REPRESENTS THE FAILING BIT		
010114	*			
010115	*	POSITION. REFER TO PLATES P-157 THROUGH P-165 IN THE LOGIC PRINTS.		
010116	*			
010117	*			
010120		IJP*RECYCLE	023302	55 5677
010121	ABIT4	ENTAU*ES1	023303	10 5633
010122		ENTAL*FAILPTTN	023304	12 5645
010123		STOP*40	023305	5056 40
010124	*	REPLACE 30ZXX ON CHASSIS 6, WHERE		
010125	*	XX REPRESENTS THE FAILING BIT POSITION. REFER TO PLATES P-166 THROUGH P-174 IN THE LOGIC PRINTS.		
010126	*			
010127	*			
010130	*	IJP*RECYCLE		
010131			RECYCLE THE MEMORY TEST.	023306
010132	ABIT5	ENTAU*ES1	023307	10 5633
010133		ENTAL*FAILPTTN	023310	12 5645
010134		STOP*40	023311	5056 40
010135	*	REPLACE 61ZXX AND 71ZXX (BOTH ON THE SAME CARD ON CHASSIS 5, WHERE XX REPRESENTS THE FAILING BIT POSITION. REFER TO PLATE P-175 IN THE LOGIC PRINTS.		
010136	*			
010137	*			
010140	*			
010141	*	IJP*RECYCLE		
010142			RECYCLE THE MEMORY TEST.	023312
010143	ABIT6	ENTAU*ES1	023313	10 5633
010144		ENTAL*FAILPTTN	023314	12 5645
010145		STOP*40	023315	5056 40
010146	*	REPLACE 20ZXX ON CHASSIS 5, WHERE		

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEGNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0137
010147	*					
010150	*					
010151	*					
010152	*					
010153		IJP*RECYCLE	023316	55 5677		
010154	ABIT7	ENTAU*ES1	023317	10 5633		
010155		ENTAL*FAILPTTN	023320	12 5645		
010156		STOP*40	023321	5056 40		
010157	*					
010160	*					
010161	*					
010162	*					
010163	*					
010164		IJP*RECYCLE	023322	55 5677		
010165	ABIT23	ENTAU*ES1	023323	10 5633		
010166		ENTAL*FAILPTTN	023324	12 5645		
010167		STOP*40	023325	5056 40		
010170	*					
010171	*					
010172	*					
010173	*					
010174	*					
010175	*					
010176	*					
010177		IJP*RECYCLE	023326	55 5677		
010200	ABIT24	ENTAU*ES1	023327	10 5633		
010201		ENTAL*FAILPTTN	023330	12 5645		
010202		STOP*40	023331	5056 40		
010203	*					

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1357

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1358		AND 30ZXX, ALL ON CHASSIS 6; WHERE XX REPRESENTS THE FAILING BIT POSITION. REFER TO PLATE P-175(60ZXX,70ZXX< AND TO PLATES P-166 THROUGH P-174		
		(30ZXX< IN THE LOGIC PRINTS.		
		IJP*RECYCLE	023332	55 5677
		RECYCLE THE MEMORY TEST.		
	ABIT28	ENTAU*ES1	023333	10 5633
		ERROR CODE TO AU.		
		ENTAL*FAILPTTN	023334	12 5645
		STOP*40	023335	5056 40
		THIS STOP IS THE RESULT OF THE A FAILURE OF ONE OF THE FOLLOWING CIRCUITS		
		(1< 60ZXX OR 70ZXX(BOTH ON THE SAME CARD< ON CHASSIS 5, SEE PLATE P-175 IN THE LOGIC PRINTS.		
		(2< 65ZXX ON CHASSIS 8, SEE PLATES P-111 THROUGH P-113 IN THE LOGIC PRINTS.		
		NOTE THAT XX REPRESENTS THE FAILING BIT POSITION.		
		IJP*RECYCLE	023336	55 5677
		RECYCLE THE MEMORY TEST.		
	ABIT56	ENTAU*ES1	023337	10 5633
		ERROR CODE TO AU.		
		ENTAL*FAILPTTN	023340	12 5645
		STOP*40	023341	5056 40
		REPLACE 61ZXX AND 71ZXX(SAME CARD<		
		AND 20ZXX, ALL ON CHASSIS 5;		
		WHERE XX REPRESENTS THE FAILING BIT POSITION. REFER TO PLATE		

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEGN0	LABEL	STATEMENT	ADDRESS	INSTRUCT
010242	*			
010243	*			
010244	*			
010245		IJP*RECYCLE	023342	55 5677
010246	ABIT57	ENTAU*E81	023343	10 5633
010247		ENTAL*FAILPTTN	023344	12 5645
010250		STOP*40	023345	5056 40
010251	*			
010252	*			
010253	*			
010254	*			
010255	*			
010256	*			
010257		IJP*RECYCLE	023346	55 5677
010260	ABIT58	ENTAU*E81	023347	10 5633
010261		ENTAL*FAILPTTN	023350	12 5645
010262		STOP*40	023351	5056 40
010263	*			
010264	*			
010265	*			
010266	*			
010267	*			
010270	*			
010271	*			
010272	*			
010273	*			
010274	*			
010275	*			
010276	*			
010277		IJP*RECYCLE	023352	55 5677

P-175(61ZXX,71ZXX< AND TO  
 FIGURES 9-157 THROUGH 9-165  
 (20ZXX< IN THE LOGIC PRINTS.  
 RECYCLE THE MEMORY TEST.  
 ERROR CODE TO AU.

FAILING PATTERN TO AL.  
 REPLACE 61ZXX AND 71ZXX(SAME CARD<

AND 30ZXX, ALL ON CHASSIS 5;  
 WHERE XX REPRESENTS THE FAILING  
 BIT POSITION. REFER TO PLATE  
 P-175(61ZXX,71ZXX< AND TO

(30ZXX< IN THE LOGIC PRINTS.  
 RECYCLE THE MEMORY TEST.  
 ERROR CODE TO AU.  
 FAILING PATTERN TO AL.

THIS STOP IS THE RESULT OF THE  
 FAILURE OF ONE OF THE  
 FOLLOWING CIRCUITS

(1< 61ZXX OR 71ZXX(BOTH ON THE  
 SAME CARD< ON CHASSIS 5; SEE  
 PLATE P-175 IN THE LOGIC  
 PRINTS.  
 (2< 65ZXX ON CHASSIS 8, SEE  
 PLATES P-111 THROUGH P-113  
 IN THE LOGIC PRINTS.  
 NOTE THAT XX REPRESENTS THE

FAILING BIT POSITION.  
 RECYCLE THE MEMORY TEST.

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1359

SEGN0	LABEL	STATEMENT	ADDRESS	INSTRUCT	
8-1360	010300	ABIT560	ENTAU+E81	ERROR CODE TO AU.	023353 10 5633
	010301		ENTAL+FAILPTT	FAILING PATTERN TO AL.	023354 12 5645
	010302		STOP*40		023355 5056 40
	010303	*		THIS STOP IS THE RESULT OF THE	
	010304	*		FAILURE OF ONE OF THE FOLLOWING	
CHANGE 7	010305	*		CIRCUITS	
	010306	*		(1< 61ZXX OR 71ZXX (BOTH ON THE	
	010307	*		SAME CARD< ON CHASSIS 5) SEE	
	010308	*		PLATE P-175 IN THE LOGIC	
	010309	*		PRINTS.	
	010310	*		(2< 20ZXX ON CHASSIS 6, SEE	
	010311	*		PLATES P-157 THROUGH P-165	
	010312	*		OF THE LOGIC PRINTS.	
	010313	*		(3< 65ZXX ON CHASSIS 8, SEE	
	010314	*		PLATES P-111 THROUGH P-113	
	010315	*		OF THE LOGIC PRINTS.	
	010316	*		NOTE THAT XX REPRESENTS THE	
	010317	*		FAILING BIT POSITION.	
	010318	*		RECYCLE THE MEMORY TEST.	
	010319	IJP+RECYCLE		023356 55 5677	
	010320	*			
	010321	*			
	010322	*			
	010323	*			
	010324	*			
	010325	*			
	010326	*			
	010327	*			
	010328	*			
	010329	*			
	010330	*			
	010331	*			
	010332	*			
	010333	*			
	010334	*			
	010335	*			
	010336	MUDROP	ENTAL+N777777	TESTS FOR MORE THAN ONE BIT	023357 12 6037

SEQNO	LABEL	STATEMENT	PAGE ADDRESS	0141 INSTRUCT
010337		ENTAU*N007777	023360	10 6025
010340	*	IN STK 0 THRU 7 THROUGH 07.		
010341		RJP*SELECT	023361	76 3666
010342		ENTAL*HNS	023362	12 5647
010343	*	HIGHEST NUMBERED STACK INDICATES THE MEMORY SIZE.		
010344		CMAL*N000004	023363	02 5773
010345		JPMGR*MUDR0PA	023364	67 3370
010346		CMAL*N000010	023365	02 5775
010347		JPMGR*MUDR0PB	023366	67 3423
010350		JP*MUDR0PC	023367	34 3477
010351	*	IF MEMORY SIZE IS 8K, 12K, OR 16K GO TO MUDR0PA.		
010352	*	IF MEMORY SIZE IS 20K, 24K, 28K, OR 32K, GO TO MUDR0PB.		
010353	*	IF MEMORY SIZE IS 36K TO 65K, GO TO MUDR0PC.		
	*	MUDR0PA EVALUATES THE MORE THAN ONE BIT DROPPED ERROR FLAG FOR AN 8K, 12K, OR 16K MEMORY.		
010354	*			
010355	*			
010356	MUDR0PA	ENTAU*N000377	023370	10 6010
010357	*	MASKS OUT THE MEMORY SIZE PORTION OF THE ERROR FLAG.		
010360		ENTAL*ES1	023371	12 5633
010361		CMSK*N000377	023372	06 6010
010362		JPEQ*MUDR0PA1	023373	61 3414
010363		ENTBK*2	023374	36 0002
010364	L2164	CMALB*SN0FLT8	023375	03 6040
010365		JPEQ*N0DR0P	023376	61 3663
010366		BJP*L0K-2	023377	73 3375
010367		ENTAL*N777777	023400	12 6037
010370		ENTAU*N007101	023401	10 6024
010371		RJP*SELECT	023402	76 3666
010372		ENTAL*ES1	023403	12 5633
010373		ENTBK*2	023404	36 0002
010374	L2174	CMALB*SN0FLT8	023405	03 6040
010375		JPEQ*TRANSFORM	023406	61 4216
		TABLE NO, GO TEST STACK TRANSFORMERS		

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1361

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
010376	*	AND THEN MATRIX DIODES.		
010377		BJP*L0K-2	023407	73 3405
010400	*	YES, AT LEAST ONE BUT NOT ALL		
010401	*	STACKS 00 THROUGH 03 FAILED,		
010402		ENTAU*ES1	023410	10 5633
010403		ENTAL*N000000	023411	12 5770
010404	*	THE AU REGISTER AND CLEAR THE		
010405		AL REGISTER.		
010406	*	STOP*40	023412	5056 40
010407	*	THIS ERROR STOP IS FOR BANK 0 X		
010410	*	X OR Y STACK SELECTION FAILURES		
010411	*	FOR AN 8K TO 16K MEMORY.		
010412	*	IJP*RECYCLE	023413	55 5677
010413	*	MUDR0PA1 USES THE ADDRESS SUBROUTINE TO TEST THE BANK 0		
010414	*	ADDRESS TRANSLATION. IF AN ADDRESS TRANSLATION FAILURE		
010415	*	EXISTS AN ERROR STOP WILL OCCUR IN ADDRESS. IF NO ADDRESS		
010416	*	TRANSLATION FAILURES EXISTS AN ERROR STOP WILL OCCUR HERE		
010417	*	IN MUDR0PA1.		
010420	*			
010421	MUDR0PA1	RJP*SPADR	023414	76 3046
010422	*	SPECIAL ADDRESS TRANSLATION		
		TEST.		
010423		ENTAL*N010000	023415	12 6026
010424	*	TEST THE BANK 0 ADDRESS		
010425		TRANSLATION USING TEST		
010426		RJP*ADDRESS	023416	76 3770
010427		ADDRESSES IN STACK 01.		
010430	*	ENTAU*ES1	023417	10 5633
010431	*	DISPLAY THE ES1 ERROR FLAG IN		
010432	*	ENTAL*N000000	023420	12 5770
010433	*	THE AU REGISTER AND CLEAR THE		
010434	*	AL REGISTER.		
010435	*	STOP*40	023421	5056 40
010436	*	ERROR STOP DUE TO A BANK 0 X OR		
010437	*	Y STACK SELECTION FAILURE.		
010438	*	IJP*RECYCLE	023422	55 5677
010439	*	RECYCLE THE MEMORY TEST.		

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CHANGE 7

TABLE 8-73 PROGRAM LISTING

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A



SEGN0	LABEL	STATEMENT	ADDRESS	INSTRUCT
010435	*			
010436	*	MUDR0PB EVALUATES THE MORE THAN ONE BIT DROPPED ERROR FLAG		
010437	*	FOR A 20K, 24K, 28K OR 32K MEMORY.		
010440	*			
010441	MUDR0PB	ENTAU*N000377 MASKS OUT THE MEMORY SIZE PORTION	023423	10 6010
010442	*	OF THE ERROR FLAG.		
010443		ENTAL*ES1 ERROR FLAG.	023424	12 5633
010444		CMSK*N000377 IF ALL STACKS 00 THROUGH 07 FAIL	023425	06 6010
010445		JPEQ*MUDR0PB3 GO TO MUDR0PB3.	023426	61 3470
010446		CMSK*N000017 IF ALL STACKS 04 THROUGH 07 FAIL	023427	06 5777
010447		JPEQ*MUDR0PB2 GO TO MUDR0PB2.	023430	61 3464
010450		ENTBK*3	023431	36 0003
010451		CMALB*SBNK0T20K IF ALL STACKS 00 THROUGH 03 FAIL	023432	03 5760
010452		JPEQ*MUDR0PB3 GO TO MUDR0PB3.	023433	61 3470
010453		BJP*L0K=2	023434	73 3432
010454		ENTBK*3	023435	36 0003
010455	L2225	CMALB*SN0FLT20	023436	03 6043
010456		JPEQ*N0DR0P 07 FAIL GO TEST THE ADDRESS	023437	61 3663
010457		BJP*L0K=2 TRANSLATIONS FOR BANKS 0	023440	73 3436
010460	*	AND 1.		
010461		ENTAL*N777777 VERIFY STACK SELECTION FAILURE	023441	12 6037
010462		ENTAU*N007101 USING DIFFERENT X AND Y MATRIX	023442	10 6024
010463		RJP*SELECT DIODES AND STACK TRANSFORMERS.	023443	76 3666
010464		ENTAL*ES1 ERROR FLAG	023444	12 5633
010465		ENTBK*3	023445	36 0003
010466	L2235	CMALB*SN0FLT20	023446	03 6043
010467		JPEQ*TRANSFORM NO, GO TEST STACK TRANSFORMERS	023447	61 4216
010470	*	AND THEN MATRIX DIODES.		
010471		BJP*L0K=2	023450	73 3446
010472		ENTAU*N000360 IF AT LEAST ONE BUT NOT ALL	023451	10 6007
010473		CMSK*N000000 STACKS 00 THROUGH 07 FAIL	023452	06 5770

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEGN0	LABEL	STATEMENT	ADDRESS	INSTRUCT
010474		JPN0T*MUDR0PB1	023453	63 3460
010475	*			
010476	*			
010477		ENTAU*ES1	023454	10 5633
010500		ENTAL*N000000	023455	12 5770
010501	*			
010502		STOP*40	023456	5056 40
010503	*			
010504	*			
010505	*			
010506		IJP*RECYCLE	023457	55 5677
010507	MUDR0PB1	ENTAU*ES1	023460	10 5633
010510		ENTAL*N000000	023461	12 5770
010511	*			
010512		STOP*40	023462	5056 40
010513	*			
010514	*			
010515	*			
010516		IJP*RECYCLE	023463	55 5677
010517	*			
010520	*	MUDR0PB2 USES THE ADDRESS SUBROUTINE TO TEST THE BANK 1		
010521	*	ADDRESS TRANSLATION. IF AN ADDRESS TRANSLATION		
010522	*	FAILURE EXISTS AN ERROR STOP WILL OCCUR IN THE ADDRESS		
010523	*	SUBROUTINE. IF NOT, AN ERROR STOP WILL OCCUR IN MUDR0PB4.		
010524	*			
010525	MUDR0PB2	RJP*SPADR	023464	76 3046
010526	*			
010527		ENTAL*N040000	023465	12 6027
010530	*			
010531		RJP*ADDRESS	023466	76 3770
010532		JP*MUDR0PB4	023467	34 3473

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
010533	*			
010534	*	MUDR0PB3 USES THE ADDRESS SUBROUTINE TO TEST THE BANK 0		
010535	*	ADDRESS TRANSLATION. IF AN ADDRESS TRANSLATION FAILURE		
010536	*	EXISTS AN ERROR STOP WILL OCCUR IN THE ADDRESS SUBROUTINE.		
010537	*	IF NOT, AN ERROR STOP WILL OCCUR AT MUDR0PB4.		
010540	*			
010541	MUDR0PB3	RJP*SPADR	SPECIAL ADDRESS TRANSLATION	023470 76 3046
010542	*		TEST.	
010543		ENTAL*N010000	TEST THE BANK 0 ADDRESS	023471 12 6026
010544	*		TRANSLATION USING TEST	
010545		RJP*ADDRESS	ADDRESSES IN STACK 01.	023472 76 3770
010546	MUDR0PB4	ENTAU*ES1	DISPLAY THE ES1 ERROR FLAG IN	023473 10 5633
010547		ENTAL*N000000	THE AU REGISTER AND CLEAR THE	023474 12 5770
			AL REGISTER.	
010550	*			
010551		STOP*40		023475 5056 40
010552	*		THIS ERROR STOP IS FOR FAILURES	
010553	*		AFFECTING ALL OF BANK 0 OR ALL	
010554	*		OF BANK 1 FOR A 20K TO 32K	
010555	*		MEMORY.	
010556		IJP*RECYCLE	RECYCLE THE MEMORY TEST.	023476 55 5677
010557	*			
010560	*	MUDR0PC EVALUATES THE MORE THAN ONE BIT DROPPED ERROR FLAG		
010561	*	FOR A 36K TO 65K MEMORY FOR STACKS 00 THROUGH 07.		
010562	*			
010563	MUDR0PC	ENTAU*N000377	MASKS OUT THE MEMORY SIZE PORTION	023477 10 6010
010564	*		OF THE ERROR FLAG.	
010565		ENTAL*ES1	ERROR FLAG	023500 12 5633
010566		CMSK*N000000	IF NO STACKS 00 THROUGH 07 FAIL	023501 06 5770
010567		JPEQ*MUDR0PD	GO TO TEST STACKS 10 THROUGH	023502 61 3546
010570	*		17.	
010571		CMSK*N000360	IF ALL STACKS 00 THROUGH 03 FAIL	023503 06 6007

TABLE 8-73 PROGRAM LISTING

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

CHANGE 7

8-1365

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1366 010572		JPEQ*MUDR0PC3	G0 T0 TEST THE ADDRESS	023504 61 3537
010573	*		TRANSLATION FOR BANK 0.	
010574		CMSK*N000017	IF ALL STACKS 04 THROUGH 07 FAIL	023505 06 5777
010575		JPEQ*MUDR0PC2	G0 T0 TEST THE ADDRESS	023506 61 3533
010576	*		TRANSLATION FOR BANK 1.	
CHANGE 7 010577		CMSK*N000377	IF ALL STACKS 00 THROUGH 07 FAIL	023507 06 6010
010600		JPEQ*MUDR0PC3	G0 T0 TEST THE ADDRESS	023510 61 3537
010601	*		TRANSLATION FOR BANK 0.	
010602		ENTAL*N777777	VERIFY STACK SELECTION FAILURE	023511 12 6037
010603		ENTAU*N007777	IN STK 0 THRU 7	023512 10 6025
010604		RJP*SELECT	DIODES AND STACK TRANSFORMERS	023513 76 3666
010605		ENTAU*N000377	MASKS OUT THE MEMORY SIZE	023514 10 6010
010606	*		PORTION OF THE ERROR FLAG.	
010607		ENTAL*ES1	ERROR FLAG.	023515 12 5633
010610		CMSK*N000000	DOES THE FAILURE REPEAT?	023516 06 5770
010611		JPEQ*TRANSFORM	NO, G0 TEST THE STACK SELECTION	023517 61 4216
010612	*		TRANSFORMERS AND THEN THE	
010613	*		MATRIX DIODES.	
010614		ENTAU*N000360	IF AT LEAST ONE BUT NOT ALL BANK	023520 10 6007
010615		CMSK*N000000	0 STACKS FAIL G0 T0 MUDR0PC1.	023521 06 5770
010616		JPN0T*MUDR0PC1		023522 63 3527
010617		ENTAU*ES1	DISPLAY THE ERROR FLAG ES1 IN THE	023523 10 5633
010620		ENTAL*N000000	AU REGISTER AND CLEAR THE AL	023524 12 5770
010621	*		REGISTER.	
010622		STOP*40		023525 5056 40
010623	*		THIS ERROR STOP IS FOR BANK 1	
010624	*		X OR Y STACK SELECTION FAILURES	
010625	*		FOR A 36K TO 65K MEMORY.	
010626		IJP*RECYCLE	RECYCLE THE MEMORY TEST.	023526 55 5677
010627	MUDR0PC1	ENTAU*ES1	DISPLAY THE ES1 ERROR FLAG IN	023527 10 5633

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
010630		ENTAL*N000000	023530	12 5770
010631	*			
010632		STOP*40	023531	5056 40
010633	*			
010634	*	THIS ERROR STOP IS FOR BANK 0 X OR Y STACK SELECTION FAILURES		
010635	*			
010636		IJP*RECYCLE	023532	55 5677
010637	*			
010640	*	MUDR0PC2 USES THE ADDRESS SUBROUTINE TO TEST THE BANK 1		
010641	*	ADDRESS TRANSLATION. IF AN ADDRESS TRANSLATION FAILURE		
010642	*	EXISTS AN ERROR STOP WILL OCCUR IN THE ADDRESS SUBROUTINE.		
010643	*	IF NOT AN ERROR STOP WILL OCCUR AT MUDR0PC4.		
010644	*			
010645	MUDR0PC2	RJP*SPADR	023533	76 3046
010646	*	SPECIAL ADDRESS TRANSLATION TEST.		
010647		ENTAL*N040000	023534	12 6027
010650	*	TEST THE BANK 1 ADDRESS TRANSLATION USING TEST		
010651		RJP*ADDRESS	023535	76 3770
010652		JP*MUDR0PC4	023536	34 3542
010653	*	GO TO THE ERROR STOP IN MUDR0PC4.		
010654	*			
010655	*	MUDR0PC3 USES THE ADDRESS SUBROUTINE TO TEST THE BANK 0		
010656	*	ADDRESS TRANSLATION. IF AN ADDRESS TRANSLATION FAILURE		
010657	*	EXISTS AN ERROR STOP WILL OCCUR IN THE ADDRESS SUBROUTINE.		
010660	*	IF NOT, AN ERROR STOP WILL OCCUR IN MUDR0PC4.		
010661	*			
010662	MUDR0PC3	RJP*SPADR	023537	76 3046
010663	*	SPECIAL ADDRESS TRANSLATION TEST.		
010664		ENTAL*N010000	023540	12 6026
010665	*	TRANSLATION USING TEST		
010666		RJP*ADDRESS	023541	76 3770

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1367

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	
8-1368	010667	MUDR0PC4	ENTAU*ES1	DISPLAY THE ES1 ERROR FLAG IN	023542 10 5633
	010670		ENTAL*N000000	THE AU REGISTER AND CLEAR	023543 12 5770
	010671	*		THE AL REGISTER.	
	010672		STOP*40		023544 5056 40
	010673	*		THIS ERROR STOP IS FOR FAILURES	
	010674	*		AFFECTING ALL OF BANK 0, OR ALL	
	010675	*		OF BANK 1, OR ALL OF BOTH BANK	
	010676	*		0 AND BANK 1 FOR A 36K TO 65K	
	010677	*		MEMORY.	
CHANGE 7	010700		IJP*RECYCLE	RECYCLE THE MEMORY TEST.	023545 55 5677
	010701	*			
	010702	*	MUDR0PD	USES THE SELECT SUBROUTINE TO TEST STACKS 10	
	010703	*		THROUGH 17 FOR MORE THAN ONE BIT DROPPED FAILURES AND	
	010704	*		RECORDS THE RESULTS IN THE FORM OF AN ERROR FLAG ES1.	
	010705	*		THE PROGRAM THEN BRANCHES TO MUDR0PE FOR A MEMORY SIZE OF	
	010706	*		36K TO 49K, OR TO MUDR0PF FOR A MEMORY SIZE OF 53K TO 65K.	
	010707	*			
	010710	MUDR0PD	ENTAL*N777777	TEST FOR MORE THAN ONE BIT	023546 12 6037
	010711		ENTAU*N100000	DROPPED IN STACKS 10 THROUGH	023547 10 6030
	010712		RJP*SELECT	17.	023550 76 3666
	010713		ENTAL*HNS	HIGHEST NUMBERED STACK INDICATES	023551 12 5647
	010714	*		THE MEMORY SIZE.	
	010715		CMAL*N000014	IF MEMORY SIZE IS 36K, 40K, 45K,	023552 02 5776
	010716		JPMGR*MUDR0PE	OR 49K, GO TO MUDR0PE.	023553 67 3555
	010717		JP*MUDR0PF	IF MEMORY SIZE IS 53K, 57K, 61K,	023554 34 3610
	010720	*		OR 65K, GO TO MUDR0PF.	
	010721	*			
	010722	*	MUDR0PE	EVALUATES THE MORE THAN ONE BIT DROPPED ERROR FLAG	
	010723	*		FOR STACKS 10 THROUGH 17 FOR 36K TO 49K OF MEMORY.	
	010724	*			
	010725	MUDR0PE	ENTAU*N000377	MASKS OUT THE MEMORY SIZE PORTION	023555 10 6010

TABLE 8-73 PROGRAM LISTING

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
010726	*			
010727		ENTAL*ES1	023556	12 5633
010730		CMSK*N000377	023557	06 6010
010731		JPEQ*MUDR0PE1	023560	61 3601
010732		ENTBK*3	023561	36 0003
010733	L2351	CMALB*SN0FLT36	023562	03 6047
010734		JPEQ*N0DR0P	023563	61 3663
010735		BJP*L0K=2	023564	73 3562
010736	*			
010737	L2354	ENTAL*N777777		
		Y	023565	12 6037
010740		ENTAU*N100101	023566	10 6031
010741		RJP*SELECT	023567	76 3666
010742		ENTAL*ES1	023570	12 5633
010743		ENTBK*3	023571	36 0003
010744	L2361	JP*FIXMDRPE	023572	34 6057
010745		JPEQ*TRANSFORM	023573	61 4216
010746		BJP*L0K=2	023574	73 3572
010747		ENTAU*ES1		
010750		ENTAL*N000000	023575	10 5633
			023576	12 5770
010751	*			
010752		STOP*40	023577	5056 40
010753	*			
010754	*			
010755	*			
010756		IJP*RECYCLE	023600	55 5677
010757	*			
010760	*	MUDR0PE1 USES THE ADDRESS SUBROUTINE TO TEST THE BANK 2		
010761	*	ADDRESS TRANSLATION. IF AN ADDRESS TRANSLATION FAILURE		
010762	*	EXISTS AN ERROR STOP WILL OCCUR IN THE ADDRESS SUBROUTINE.		

OF THE ERROR FLAG.  
 ERROR FLAG  
 IF ALL STACKS 10 THROUGH 17 FAIL  
 GO TO MUDR0PE1.

13 FAIL GO TEST THE BANK 0,  
 BANK 1, AND BANK 2 ADDRESS  
 TRANSLATIONS.

IMPROPER LABEL IN ORIGINAL ASSEMBL

USING DIFFERENT X AND Y MATRIX  
 DIODES AND STACK TRANSFORMERS.

ERROR FLAG.  
 SEE L0K FIXMDRPE  
 N0, GO TEST STACK TRANSFORMERS  
 AND THEN MATRIX DIODES.  
 DISPLAY THE ES1 ERROR FLAG IN THE

AU REGISTER AND CLEAR THE AL  
 REGISTER.

ERROR STOP DUE TO AT LEAST ONE  
 BUT NOT ALL BANK 2 STACKS  
 FAILING FOR 36K TO 49K.  
 RECYCLE THE MEMORY TEST.

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1369

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1370	010763	* IF NOT AN ERROR STOP WILL OCCUR HERE IN MUDR0PE1.		
	010764	*		
	010765	MUDR0PE1 RJP*SPADR SPECIAL ADDRESS TRANSLATION	023601	76 3046
	010766	* TEST.		
	010767	ENTAL*N100000 TEST THE BANK 2 ADDRESS	023602	12 6030
CHANGE 7	010770	* TRANSLATION USING TEST		
	010771	RJP*ADDRESS ADDRESSES IN STACK 10.	023603	76 3770
	010772	ENTAU*ES1 YES, DISPLAY THE ERROR FLAG ES1	023604	10 5633
	010773	ENTAL*N000000 IN THE AU REGISTER AND CLEAR	023605	12 5770
	010774	* THE AL REGISTER.		
	010775	STOP*40	023606	5056 40
	010776	* THIS ERROR STOP IS FOR BANK 2		
	010777	* X OR Y STACK SELECTION FAILURES		
	011000	* FOR A 36K TO 49K.		
	011001	IJP*RECYCLE RECYCLE THE MEMORY TEST.	023607	55 5677
	011002	*		
	011003	* MUDR0PF EVALUATES THE MORE THAN ONE BIT DROPPED ERROR FLAG		
	011004	* FOR STACKS 10 THROUGH 17 FOR 53K TO 65K OF MEMORY.		
	011005	*		
	011006	MUDR0PF ENTAU*N000377 MASKS OUT THE MEMORY SIZE PORTION	023610	10 6010
	011007	* OF THE ERROR FLAG.		
	011010	ENTAL*ES1 ERROR FLAG	023611	12 5633
	011011	CMSK*N000377 IF ALL STACKS 10 THROUGH 17 FAIL	023612	06 6010
	011012	JPEQ*MUDR0PF3 GO TO TEST THE ADDRESS	023613	61 3654
	011013	* TRANSLATION FOR BANK 2.		
	011014	CMSK*N000017 IF ALL STACKS 14 THROUGH 17 FAIL	023614	06 5777
	011015	JPEQ*MUDR0PF2 GO TO TEST THE ADDRESS	023615	61 3650
	011016	* TRANSLATION FOR BANK 3.		
	011017	L2405 JP*FIXMDRPF SEE L0K FIXMDRPF	023616	34 6073
	011020	JPEQ*MUDR0PF3 GO TO TEST THE ADDRESS	023617	61 3654
	011021	* TRANSLATION FOR BANK 2.		

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING



SEGN0	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0151
011022		BJP*L0K-2	023020	73	3616	
011023		ENTBK*3	023021	36	0003	
011024	L2411	CMALB*SN0FLT53	023022	03	0053	
011025		JPEG*N0DR0P	023023	61	3663	
011026	*					17 FAIL G0 TEST THE BANK 0, BANK 1, BANK 2, AND BANK 3,
011027		BJP*L0K-2	023024	73	3622	
011030		ENTAL*N777777	023025	12	0037	
011031		ENTAU*N100101	023026	10	0031	
011032		RJP*SELECT	023027	76	3666	
011033		ENTAL*ES1	023030	12	0033	
011034		ENTBK*3	023031	36	0003	
011035	L2421	CMALB*SN0FLT53	023032	03	0053	
011036		JPEG*TRANSFORM	023033	61	4216	
						N0, G0 TEST STACK TRANSFORMERS
						AND THEN MATRIX DIODES.
011037	*					
011040		BJP*L0K-2	023034	73	3632	
011041		ENTAU*N000360	023035	10	0007	
011042		CMSK*N000000	023036	06	5770	
011043		JPN0T*MUDR0PF1	023037	63	3644	
011044	*					IF AT LEAST ONE BUT NOT ALL BANK 2 STACKS FAIL G0 TO MUDR0PF1.
011045	*					IF AT LEAST ONE BUT NOT ALL BANK 3 STACKS FAIL DISPLAY THE ES1 ERROR FLAG IN THE AU REGISTER
011046		ENTAU*ES1	023040	10	0033	
011047		ENTAL*N000000	023041	12	5770	
011050		STOP*40	023042	5056	40	
011051	*					AND CLEAR THE AL REGISTER.
011052	*					THIS ERROR STOP IS FOR BANK 3 X OR Y STACK SELECTION FAILURES FOR A 53K TO 65K MEMORY.
011053	*					RECYCLE THE MEMORY TEST.
011054		IJP*RECYCLE	023043	55	5677	
011055	MUDR0PF1	ENTAU*ES1	023044	10	5633	
011056		ENTAL*N000000	023045	12	5770	
						DISPLAY THE ES1 ERROR FLAG IN THE AU REGISTER AND CLEAR THE
011057	*					AL REGISTER.
011060		STOP*40	023046	5056	40	

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1371

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
011061	*	THIS ERROR STOP IS FOR BANK 2		
011062	*	X OR Y STACK SELECTION FAILURES		
011063	*	FOR A 53K TO 65K MEMORY.		
011064		IJP*RECYCLE	023647	55 5677
011065	*			
011066	*	MUDR0PF2 USES THE ADDRESS SUBROUTINE TO TEST THE BANK 3		
011067	*	ADDRESS TRANSLATION. IF AN ADDRESS TRANSLATION FAILURE		
011070	*	EXISTS AN ERROR STOP WILL OCCUR IN THE ADDRESS SUBROUTINE.		
011071	*	IF NOT, AN ERROR STOP WILL OCCUR IN MUDR0PF4.		
011072	*			
011073	MUDR0PF2	RJP*SPADR	023650	76 3046
011074	*	SPECIAL ADDRESS TRANSLATION		
011075		TEST.		
		ENTAL*N140000	023651	12 6032
		TEST BANK 3 ADDRESS TRANSLATION		
011076	*	USING TEST ADDRESSES IN		
011077		RJP*ADDRESS	023652	76 3770
011100		JP*MUDR0PF4	023653	34 3657
011101	*			
011102	*	MUDR0PF3 USES THE ADDRESS SUBROUTINE TO TEST THE BANK 2		
011103	*	ADDRESS TRANSLATION. IF AN ADDRESS TRANSLATION FAILURE		
011104	*	EXISTS AN ERROR STOP WILL OCCUR IN THE ADDRESS SUBROUTINE.		
011105	*	IF NOT, AN ERROR STOP WILL OCCUR IN MUDR0PF4.		
011106	*			
011107	MUDR0PF3	RJP*SPADR	023654	76 3046
011110	*	SPECIAL ADDRESS TRANSLATION		
011111		TEST.		
011111		ENTAL*N100000	023655	12 6030
011112	*	TEST BANK 2 ADDRESS TRANSLATION		
011113		RJP*ADDRESS	023656	76 3770
011114	*	USING TESTS ADDRESSES IN		
011115	MUDR0PF4	ENTAU*ES1	023657	10 5633
		STACK 10.		
		GO TO ERROR STOP IN MUDR0P4.		
		DISPLAY THE ES1 ERROR FLAG IN		
011116		ENTAL*N000000	023660	12 5770
011117	*	THE AU REGISTER AND CLEAR THE		
		AL REGISTER.		

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0153
011120		STOP*40	023661	5056	40	
011121	*					
011122	*	THIS ERROR STOP IS FOR FAILURES				
011123	*	AFFECTING ALL OF BANK 2, OR ALL				
011124	*	OF BANK 3, OR ALL OF BOTH BANK				
		2 AND BANK 3 FOR A 53K TO 65K				
011125	*	MEMORY.				
011126		IJP*RECYCLE	023662	55	5677	
011127	N0DR0P	RJP*SPADR	023663	76	3046	
011130		RJP*ADRXLAT	023664	76	3747	
011131		JP*TRANSFORM	023665	34	4216	
011132	*					
011133	*					
011134	*	THE SELECT SUBROUTINE IS USED TO DETERMINE WHICH STACKS				
011135	*	FAIL. EIGHT STACKS, 00 THROUGH 07 OR 10 THROUGH 17, ARE				
011136	*	TESTED EACH TIME SELECT IS REFERENCED. IF BITS ARE BEING				
011137	*	PICKED UP THE TEST PATTERN USED IS 000000, AND IF BITS ARE				
011140	*	BEING DROPPED THE TEST PATTERN USED IS 777777.				
011141	*					
011142	SELECT	0	023666		000000	
011143		ENTICR*1	023667	5072	01	
		ACTIVATE B1.				
011144		STRAU*BASEADR	023670	46	5620	
011145		STRAL*TESTPATTN	023671	44	5705	
011146		ENTALK*7	023672	70	0007	
011147		SET UP THE REPEAT COUNTS FOR				
011150		TEST 1 AND	023673	44	5655	
011151		TEST 2.	023674	44	5656	
011152	*	ENTB*BASEADR	023675	32	5620	
011153		SET THE ACTIVE B REGISTER TO THE				
		THE FIRST TEST ADDRESS--TEST 1.				
011153		ENTAU*N000000	023676	10	5770	
		INITIATE ESI ERROR CODE				
011154	SELECT1	LSHAU*1	023677	5045	01	
011155	*	PREPARE ERROR CODE FOR RECORDING				
		TEST RESULTS OF THE NEXT STACK.				

CHANGE 7 8-1373

TABLE 8-73 PROGRAM LISTING  
 NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

SEGNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1374	011156	SELECT2	ENTAL*TESTPATTN	023700 12 5705
	011157		ENTSR*10	023701 5073 10
	011160		STRALB*0	023702 45 0000
	011161		CMALB*0	023703 03 0000
	011162		JPEG*SELECT3	023704 61 3710
CHANGE 7	011163		LSHA*22	023705 5047 22
	011164		ADDALK*1	023706 71 0001
	011165		LSHA*22	023707 5047 22
	011166	SELECT3	ENTSR*00	023710 5073 00
	011167		ENTAL*N010000	023711 12 6026
	011170	*		
	011171		ENTSR*10	023712 5073 10
	011172		ADDAL*1	023713 14 0001
	011173		STRAL*1	023714 44 0001
	011174		ENTSR*00	023715 5073 00
	011175		ISK*L00P1	023716 57 5655
	011176		JP*SELECT1	023717 34 3677
011177		LSHA*22	023720 5047 22	
011200		SLSET*HNSX	023721 51 5651	
011201	*			
011202		STRAL*ES1	023722 44 5633	
011203		ENTB*BASEADR	023723 32 5620	
011204	*			
011205		ENTAU*N000000	023724 10 5770	
011206	SELECT4	LSHAU*1	023725 5045 01	
011207	*			
011210	SELECT5	ENTAL*TESTPATTN	023726 12 5705	
011211		ENTSR*10	023727 5073 10	
011212		CMALB*0	023730 03 0000	
011213		JPEG*SELECT6	023731 61 3735	
011214		LSHA*22	023732 5047 22	

SEE NOTE 1 IN APPENDIX A.  
 DOES THE STACK FAIL?  
 NO, LEAVE THE ERROR BIT CLEAR.

YES, SET THE ERROR BIT.

SEE NOTE 2 IN APPENDIX A.  
 FORM TEST ADDRESS TO TEST NEXT  
 STACK.

SEE NOTE 1 IN APPENDIX A.

SEE NOTE 2 IN APPENDIX A.  
 HAVE EIGHT STACKS BEEN TESTED?  
 NO, TEST THE NEXT STACK.

MODIFY THE ES1 ERROR FLAG TO  
 INDICATE THE MEMORY SIZE.  
 SAVE THE ES1 ERROR FLAG.

SET THE ACTIVE B REGISTER TO  
 THE FIRST TEST ADDRESS--TEST 2.  
 INITIATE ES2 ERROR CODE  
 PREPARE ERROR CODE FOR RECORDING  
 TEST RESULTS OF THE NEXT STACK.

TEST PATTERN  
 SEE NOTE 1 IN APPENDIX A.  
 DID THE STACK FAIL?

NO, LEAVE THE ERROR BIT CLEAR.

SEGNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
011215		ADDALK*1	023733	71 0001
011216		LSHA*22	023734	5047 22
011217	SELECT6	ENTSR*00	023735	5073 00
011220		ENTAL*N010000	023736	12 6026
011221	*			
011222		ENTSR*10	023737	5073 10
011223		ADDAL*1	023740	14 0001
011224		STRAL*1	023741	44 0001
011225		ENTSR*00	023742	5073 00
011226		ISK*LOOP2	023743	57 5656
011227		JP*SELECT4	023744	34 3725
011230		STRAU*ES2	023745	46 5634
011231		IJP*SELECT	023746	55 3666
011232	*			
011233	ADRXLAT	0	023747	000000
011234		ENTAL*HNS	023750	12 5647
011235		ADDALK*7773	023751	71 7773
011236		JPALNG*RADR0	023752	67 3765
011237	*			
011240		ADDALK*7773	023753	71 7773
011241		JPALNG*RADR1	023754	67 3763
011242	*			
011243		ADDALK*7773	023755	71 7773
011244		JPALNG*RADR2	023756	67 3761
011245	*			
011246	*			
011247	*			
011250	*			

YES, SET THE ERROR BIT.

SEE NOTE 2 IN APPENDIX A.  
FORM TEST ADDRESS TO TEST THE  
NEXT STACK.

SEE NOTE 1 IN APPENDIX A.

SEE NOTE 2 IN APPENDIX A.  
HAVE EIGHT STACKS BEEN TESTED?  
NO, TEST THE NEXT STACK.  
YES, SAVE THE ES1 ERROR FLAG.  
EXIT THE SELECT SUBROUTINE.

HIGHEST NUMBERED STACK  
IF 8K TO 16K MEMORY  
GO TO TEST ONLY BANK 0 ADDRESS  
TRANSLATION.

IF 20K TO 32K MEMORY  
GO TEST BANK 0 AND BANK 1

ADDRESS TRANSLATIONS.  
IF 36K TO 49K MEMORY  
GO TEST THE BANK 0, BANK 1,  
AND BANK 2 ADDRESS TRANSLATIONS.

IF 53K TO 65K MEMORY  
TEST THE BANK 0, BANK 1, BANK 2,  
AND BANK 3 ADDRESS TRANSLATIONS.

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1375

ADDRESS INSTRUCT

SEQNO LABEL STATEMENT

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
011251	RADR3	ENTAL*N140000	023757	12 6032
011252		RJP+ADDRESS	023760	76 3770
011253	RADR2	ENTAL*N100000	023761	12 6030
011254		RJP+ADDRESS	023762	76 3770
011255	RADR1	ENTAL*N040000	023763	12 6027
011256		RJP+ADDRESS	023764	76 3770
011257	RADR0	ENTAL*N010000	023765	12 6026
011260		RJP+ADDRESS	023766	76 3770
011261		IJP+ADRXLAT	023767	55 3747
011262	*			
011263	*	THE ADDRESS SUBROUTINE TESTS THE ADDRESS TRANSLATION FOR		
011264	*	THE BANK SPECIFIED BY THE BASE TEST ADDRESS. BEFORE THE		
011265	*	ADDRESS ROUTINE IS REFERENCED, THE BASE TEST ADDRESS MUST		
011266	*	BE ENTERED INTO THE AL REGISTER. THE BASE TEST ADDRESSES		
011267	*	USED TO TEST THE ADDRESS TRANSLATIONS ARE AS FOLLOWS		
011270	*	010000 FOR BANK 0, 040000 FOR BANK 1, 100000 FOR BANK 2,		
011271	*	AND 140000 FOR BANK 3. THE ADDRESS SUBROUTINE USES THE		
011272	*	DIGIT SUBROUTINE TO TEST EACH DIGIT TRANSLATION; IF A		
011273	*	FAILURE IS ISOLATED AN ERROR STOP WILL OCCUR HERE IN THE		
011274	*	ADDRESS TRANSLATION SUBROUTINE.		
011275	*			
011276	ADDRESS	0	023770	000000
011277		STRAL*BASEADR	023771	44 5620
011300	*			
011301	*	XDIODE USES THE DIGIT SUBROUTINE		
011302	*	TO TEST THE X AXIS DIODE		
011303	*	SELECTION, BITS 09 THROUGH 11		
011304	*	OF THE ADDRESS.		
011305	*			
011306		RJP*SAVEADR	023772	76 5561
011307	*	SAVE THE CONTENTS OF THE TEST		
		ADDRESSES THAT MAY CONTAIN		

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CHANGE 7

TABLE 8-73 PROGRAM LISTING  
NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
011310	*			
011311	XDIODE	ENTALK*1000	023773	70 1000
011312		RJP*DIGIT	023774	76 4105
011313		RJP*RESTORE	023775	76 5600
011314	*			
011315		ENTAU*EA2	023776	10 5625
011316		ENTAL*EA	023777	12 5623
011317		JPAUZ*XGRUOP	024000	60 4017
011320	*			
011321	*			
011322		CMAL*N000377	024001	02 6010
011323		JPEQ*XGRUOP	024002	61 4017
011324	*			
011325		ENTBK*7	024003	36 0007
011326		ENTAL*EA2	024004	12 5625
011327		CMALB*BIT00	024005	03 5711
011330		JPEQ*XD1	024006	61 4011
011331		BJP*L0K-2	024007	73 4005
011332	*			
011333		JP*XD2	024010	34 4013
011334	*			
011335	*			
011336	*			
011337	XD1	ENTALK*0100	024011	70 0100
011340		RJP*VERIFYDIO	024012	76 4157
011341	*			
011342	*			
011343	*			
011344	*			

CHANGE 7 8-1377

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1378	011345 *	IF THE FAILURE REPEATS THE X AXIS		
	011346 *	DIODE SELECTION ERROR STOP		
	011347 *	OCCURS.		
	011350 XD2	ENTAU*EA1	024013	10 5624
	011351	ENTAL*EA2	024014	12 5625
		EA2 IN THE AL REGISTER.		
CHANGE 7	011352 *	STOP*40	024015	5056 40
	011353			
	011354 *	THIS ERROR STOP IS FOR X AXIS		
	011355 *	DIODE SELECTION FAILURES. SEE		
	011356 *	THE DIGIT SUBROUTINE DESCRIPTION		
	011357 *	FOR AN EXPLANATION OF THE EA1		
	011360 *	AND EA2 ERROR FLAGS.		
	011361	IJP*RECYCLE	024016	55 5677
	011362 *			
	011363 *	XGROUP USES THE DIGIT SUBROUTINE		
	011364 *	TO TEST THE X AXIS GROUP		
	011365 *	SELECTION, BITS 06 THROUGH 08		
	011366 *	OF THE ADDRESS.		
	011367 *			
	011370 XGROUP	ENTALK*0100	024017	70 0100
	011371	RJP*DIGIT	024020	76 4105
	011372	JPAUZ*YDIODE	024021	60 4041
	011373 *	EQUALS 000000< G0 TEST THE Y		
	011374 *	AXIS DIODE SELECTION.		
	011375	CMAL*N000377	024022	02 0010
	011376	JPEQ*YDIODE	024023	61 4041
	011377 *	EQUALS 000377< G0 TEST THE		
	011400	ENTBK*7	024024	36 0007
	011401	ENTAL*EA2	024025	12 5625
	011402	CMALB*BIT00	024026	03 5711
		IF ONLY ONE TEST ADDRESS FAILED		

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING



SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
011403		JPEQ*XG1	024027	61 4032
011404		BJP*L0K=2	024030	73 4026
011405	*			
011406		JP*XG2	024031	34 4035
011407	*			
011410	*			
011411	*			
011412	XG1	ENTALK*1000	024032	70 1000
011413		RJP*VERIFYDI0	024033	76 4157
011414	*			
011415	*			
011416	*			
011417	*			
011420	*			
011421	*			
011422	*			
011423		RJP*VERFTRFM	024034	76 4176
011424	*			
011425	*			
011426	*			
011427	*			
011430	*			
011431	*			
011432	*			
011433	*			
011434	*			
011435	XG2	ENTAU*EA1	024035	10 5624
011436		ENTAL*EA2	024036	12 5625
011437	*			

CHANGE 7

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NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1380		STOP*40	024037	5056 40
	*	THIS ERROR STOP IS FOR X AXIS		
	*	GROUP SELECTION FAILURES. SEE		
	*	THE DIGIT SUBROUTINE DESCRIPTION		
CHANGE 7	*	FOR AN EXPLANATION OF THE EA1		
	*	AND EA2 ERROR FLAGS.		
		IJP*RECYCLE	024040	55 5677
	*	RECYCLE THE MEMORY TEST.		
	*	YDIODE USES THE DIGIT SUBROUTINE		
	*	TO TEST THE Y AXIS DIODE		
	*	SELECTION, BITS 03 THROUGH 05		
	*	OF THE ADDRESS.		
	*	TEST ADDRESS INCREMENT	024041	70 6010
	YDIODE	ENTALK*0010	024042	76 4105
		RJP*DIGIT	024043	80 4062
		JPAUZ*YGROUP		
	*	IF NO TEST ADDRESSES FAIL(EA2		
	*	EQUALS 000000< GO TEST THE Y		
	*	AXIS GROUP SELECTION.		
		IF ALL TEST ADDRESSES FAIL(EA1	024044	02 6010
		JPEQ*YGROUP	024045	61 4062
		EQUALS 000377< GO TEST THE Y		
	*	AXIS GROUP SELECTION.		
		ENTBK*7	024046	36 0007
		ENTAL*EA2	024047	12 5625
		CMALB*BIT00	024050	03 5711
		JPEQ*YD1	024051	61 4054
		BJP*L0K=2	024052	73 4050
	*	DIODE.		
		IF MORE THAN ONE BUT NOT ALL	024053	34 4056
		JP*YD2		
	*	TEST ADDRESSES FAIL GO TO THE		
	*	Y AXIS DIODE SELECTION ERROR		

SEGN0	LABEL	STATEMENT	ADDRESS	INSTRUCT
011476	*	STOP.		
011477	YD1	ENTALK*0001	024054	70 0001
011500		RJP*VERIFYDI0	024055	76 4157
011501	*	IF THE FAILURE DOES NOT REPEAT FOR		
011502	*	A DIFFERENT MATRIX DIODE PAIR		
011503	*	PROGRAM CONTROL IS TRANSFERED TO		
011504	*	THE MATRIX DIODE TEST DIODEMTRX.		
011505	*	IF THE FAILURE REPEATS THE Y		
011506	*	AXIS DIODE SELECTION ERROR STOP		
011507	*	OCCURS.		
011510	YD2	ENTAU*EA1	024056	10 5624
011511		ENTAL*EA2	024057	12 5625
011512	*	EA2 IN THE AL REGISTER.		
011513		STOP*40	024060	5056 40
011514	*	THIS ERROR STOP IS FOR Y AXIS		
011515	*	DIODE SELECTION FAILURES. SEE		
011516	*	THE DIGIT SUBROUTINE DESCRIPTION		
011517	*	FOR AN EXPLANATION OF THE EA1		
011520	*	AND EA2 ERROR FLAGS.		
011521		IJP*RECYCLE	024061	55 5677
011522	*	RECYCLE THE MEMORY TEST.		
011523	*	YGROUP USES THE DIGIT SUBROUTINE		
011524	*	TO TEST THE Y AXIS GROUP		
011525	*	SELECTION, BITS 00 THROUGH 02		
011526	YGROUP	ENTALK*0001	024062	70 0001
		TEST ADDRESS INCREMENT		
011527		RJP*DIGIT	024063	76 4105
011530		JPAUZ*ADDRESS1	024064	60 4104
		IF NO TEST ADDRESSES FAIL(EA2		

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1381

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
011531	*	EQUALS 000000< GO TO ADDRESS		
011532	*	SUBROUTINE EXIT.		
011533		CMAL*N000377	024065	02 6010
011534		JPEG*ADDRESS1	024066	61 4104
011535		ENTBK*7	024067	36 0007
011536		ENTAL*EA2	024070	12 5625
011537		CMALB*BIT00	024071	03 5711
011540		JPEG*YG1	024072	61 4075
011541		BJP*L0K=2	024073	73 4071
011542	*	DIODE.		
011543		JP*YG2		
011544	*	IF MORE THAN ONE BUT NOT ALL TEST	024074	34 4100
011544	*	ADDRESSES FAIL GO TO THE Y AXIS		
011545	*	GROUP SELECTION ERROR STOP.		
011546	YG1	VERIFY THE FAILURE	024075	70 0010
011547		ENTALK*0010	024076	76 4157
011547		RJP*VERIFYDIO		
011550	*	IF THE FAILURE DOES NOT REPEAT FOR		
011551	*	A DIFFERENT Y MATRIX DIODE PAIR		
011552	*	USING THE SAME Y AXIS GROUP		
011553	*	SELECTION TRANSFORMER		
011554	*	PROGRAM CONTROL IS TRANSFERRED		
011555	*	FROM VERIFYDIO TO THE MATRIX		
011556	*	DIODE TEST DIOMTRX.		
011557		RJP*VERFTRFM	024077	76 4176
011560	*	IF THE FAILURE DOES NOT REPEAT		
011561	*	FOR THE CORRESPONDING Y AXIS		
011562	*	GROUP SELECTION TRANSFORMER		
011563	*	FOR A DIFFERENT STACK, PROGRAM		
011564	*	CONTROL WILL TRANSFER FROM		
011565	*	VERFTRFM TO THE STACK		

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
011566	*			
011567	*			
011570	*			
011571	*			
011572	YG2	ENTAU*EA1	024100	10 5024
011573		ENTAL*EA2	024101	12 5025
011574	*			
011575		STOP*40	024102	5056 40
011576	*			
011577	*			
011600	*			
011601	*			
011602	*			
011603		IJP*RECYCLE	024103	55 5077
011604	ADDRESS1	IJP*ADDRESS	024104	55 3770
011605	DIGIT	0	024105	000000
011606		STRADR*DIGIT3	024106	74 4127
011607		STRADR*DIGIT6	024107	74 4150
011610		ENTALK*7	024110	70 0007
011611		STRAL*LOOP1	024111	44 5655
011612		STRAL*LOOP2	024112	44 5656
011613		ENTB*BASEADR	024113	32 5620
011614	*			
011615		ENTALK*0000	024114	70 0000
011616	DIGIT1	LSHAL*1	024115	5046 01
011617	*			
011620	*			
011621		ENTAU*N777777	024116	10 6037
011622		ENTSR*10	024117	5073 10
011623		STRAUB*0	024120	47 0000

TRANSFORMER TEST TRANSFORM.  
 IF THE FAILURE REPEATS THE Y AXIS  
 GROUP SELECTION ERROR STOP  
 OCCURS.

DISPLAY THE ERROR FLAG EA1 IN THE  
 AU REGISTER AND THE ERROR FLAG  
 EA2 IN THE AL REGISTER.

THIS ERROR STOP IS FOR Y AXIS  
 GROUP SELECTION FAILURES. SEE  
 THE DIGIT SUBROUTINE DESCRIPTION

FOR AN EXPLANATION OF THE EA1

AND EA2 ERROR FLAGS.  
 RECYCLE THE MEMORY TEST.  
 EXIT THE ADDRESS SUBROUTINE.

MODIFY TEST ADDRESS  
 INCREMENTATION INSTRUCTIONS.

SET UP LOOPS FOR EIGHT TEST

ADDRESSES.  
 ENTER B WITH THE FIRST TEST  
 ADDRESS.

INITIATE EA1 ERROR FLAG.  
 SHIFT ERROR CODE TO RECEIVE  
 THE RESULTS OF THE NEXT TEST  
 ADDRESS.

TEST PATTERN

SEE NOTE 1 IN APPENDIX A.

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

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SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1384	011624	ENTAU*0	024121	11 0000
	011625	ENTSR*00	024122	5073 00
	011626	JPAUZ*DIGIT2	024123	60 4126
	011627	CPAU*0	024124	5062 00
	011630	JPAUZ*DIGIT3	024125	60 4127
	011631	DIGIT2	024126	71 0001
	011632	*		
	011633	DIGIT3	024127	37 0000
	011634	ENTBKB*0	024130	57 5655
	011635	ISK*LR0P1	024131	34 4115
	011635	JP*DIGIT1	024131	34 4115
	011636	STRAL*EA	024132	44 5623
	011637	*		
	011640	ADDAL*BASEADR	024133	14 5620
	011641	STRAL*EA1	024134	44 5624
	011642	ENTB*BASEADR	024135	32 5620
	011643	*		
	011644	ENTALK*0	024136	70 0000
	011645	DIGIT4	024137	5046 01
	011646	*		
	011647	*		
	011650	ENTSR*10	024140	5073 10
	011651	ENTAU*0	024141	11 0000
	011652	ENTSR*00	024142	5073 00
	011653	JPAUZ*DIGIT5	024143	60 4146
	011654	CPAU*0	024144	5062 00
	011655	JPAUZ*DIGIT6	024145	60 4150
	011656	DIGIT5	024146	71 0001
	011657	*		
	011660	STRB*FAILTEST	024147	42 5646
	011661	*		
	011662	DIGIT6	024150	37 0000

TABLE 8-73 PROGRAM LISTING

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

SEGNO	LABEL	STATEMENT	ADDRESS	PAGE	INSTRUCT	0165
011663		ISK*LOOP2	024151	57	5656	
011664		JP*DIGIT4	024152	34	4137	
011665		STRAL*EA2	024153	44	5625	
011666		ENTAU*EA2	024154	10	5625	
011667	*					
011670		ENTAL*EA	024155	12	5623	
011671	*					
011672	*					
011673		IJP*DIGIT	024156	55	4105	
011674	VERIFYDI0	0	024157		000000	
011675		ADDAL*FAILTEST	024160	14	5646	
011676	*					
011677	*					
011700	*					
011701		ENTSR*10	024161	5073	10	
011702		STRAL*0001	024162	44	0001	
011703	*					
011704		ENTALK*7777	024163	70	7777	
011705		ENTaub*0	024164	11	0000	
011706	*					
011707	*	STRALB*0	024165	45	0000	
011710		ENTALB*0	024166	13	0000	
011711		STRAUB*0	024167	47	0000	
011712	*					
011713		ENTSR*00	024170	5073	00	
011714	*					
011715	*					
011716		JPALZ*VERFYDI01	024171	61	4175	
011717		CPAL*0	024172	5061	00	
011720		JPALNZ*VERFYDI01	024173	63	4175	
011721		JP*DI0DEMTRX	024174	34	4316	

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
011722	*			
011723	VERFYDIO1	IJP*VERIFYDIO	024175	55 4157
011724	*			
011725	VERFTRFM	0	024176	000000
011726		ENTAL*FAILTEST	024177	12 5646
011727		ADDAL*N010000	024200	14 6026
011730	*			
011731		ENTSR*10	024201	5073 10
011732		STRAL*0001	024202	44 0001
011733	*			
011734		ENTALK*7777	024203	70 7777
011735		ENTaub*0	024204	11 0000
011736	*			
011737		STRALB*0	024205	45 0000
011740		ENTALB*0	024206	13 0000
011741		STRAUB*0	024207	47 0000
011742	*			
011743		ENTSR*00	024210	5073 00
011744		JPALZ*VERFTRFM1	024211	61 4215
011745		CPAL*0	024212	5061 00
011746		JPALNZ*VERFTRFM1	024213	63 4215
011747		JP*TRANSFORM	024214	34 4216
011750	VERFTRFM1	IJP*VERFTRFM	024215	55 4176
011751	TRANSFORM	ENTAL*HNS	024216	12 5647
011752		STRAL*LOOP1	024217	44 5655
011753	*			
011754	TRANSFM1	ENTAL*LOOP1	024220	12 5655
011755	*			
011756		LSHAL*14	024221	5046 14
011757	*			
011760		ADDAL*N006000	024222	14 6022

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NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING



SEGN0	LABEL	STATEMENT	ADDRESS	PAGE	INSTRUCT	0167
011761		STRAL*BASEADR	024223	44	5620	
011762	XTRANSFM	ENTAL*N000100	024224	12	6003	
011763	*					
011764		ENTAU*N001000	024225	10	6021	
011765	*					
011766	*					
011767	*					
011770	*					
011771	RJP*TRAN	TEST THE X AXIS TRANSFORMERS FOR	024226	70	4246	
011772	*	THE STACK.				
011773	JPAUNG*YTRANSFM	IF NO X TRANSFORMERS FAILED,	024227	66	4234	
011774	RSHAL*6	POSITION THE DIGIT THAT	024230	5042	06	
011775	*	SPECIFIES THE FAILING				
011776	*					
011777	*					
012000	SLCL*N000007	TRANSFORMER INTO THE LOWEST				
012001	*	DIGIT OF AL.				
012002	*	THEN CLEAR OUT ALL OTHER DIGITS	024231	52	5774	
012003	*	OF THE AL REGISTER.				
012004	*	TEST THE Y AXIS TRANSFORMERS				
012005	*	FOR THE STACK.				
012006	STOP*40		024232	5056	40	
012007	*	AU CONTAINS THE FAILING STACK				
012008	*					
012009	*					
012010	*					
012011	*					
012012	*					
012013	IJP*RECYCLE	NUMBER IN OCTAL (000088<.				
012014	YTRANSFM	AL CONTAINS 00000N REFERENCING	024233	55	5677	
012015	*	THE FAILING X TRANSFORMER THAT	024234	12	5771	
		SERVES ADDRESSES XXXNXX FOR THE				
		STACK.				
		RECYCLE THE MEMORY TEST.				
		INCREMENT USED IN TESTING Y				
		TRANSFORMERS.				
012016	ENTAU*N000010	USED TO MODIFY THE FAILING TEST	024235	10	5775	
012017	*	ADDRESS TO USE A DIFFERENT Y				

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7

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SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
012020	*	MATRIX DIODE PAIR TO VERIFY THE		
012021	*	Y AXIS STACK TRANSFORMER		
012022	*	FAILURE.		
012023	RJP*TRAN	TEST THE Y AXIS TRANSFORMERS	024236	76 4246
012024	*	FOR THE STACK.		
012025	JPAUNG*TRANSFM2	IF NO Y TRANSFORMER FAILURES GO	024237	66 4243
012026	*	TEST THE TRANSFORMERS FOR THE		
012027	*	NEXT STACK.		
012030	SLCL*N000007	CLEAR OUT ALL BUT THE LOWEST	024240	52 5774
012031	*	DIGIT OF THE AL REGISTER.		
012032	STOP*40	AU CONTAINS THE FAILING STACK	024241	5056 40
012033	*	NUMBER IN OCTAL (XXXXSS).		
012034	*	AL CONTAINS 00000N REFERENCING		
012035	*	THE FAILING Y TRANSFORMER THAT		
012036	*	SERVES ADDRESSES XXXXXN FOR THE		
012037	*	STACK.		
012040	IJP*RECYCLE	RECYCLE THE MEMORY TEST.	024242	55 5677
012041	TRANSFM2 ISK*LOOP1	HAVE ALL THE STACKS BEEN TESTED?	024243	57 5655
012042	JP*TRANSFM1	NO, TEST THE TRANSFORMERS ON	024244	34 4220
012043	*	THE NEXT STACK.		
012044	JP*DIODEMTRX	YES, TEST THE X AND Y MATRIX	024245	34 4316
012045	*	DIODES.		
012046	*	ON ALL STACKS.		
012047	TRAN 0	TEST X OR Y GROUP SELECTION	024246	000000
012050	*	TRANSFORMERS FOR A STACK		
012051	STRAU*VERIFY	USED TO VERIFY FAILURES	024247	46 5710
012052	STRADR*TRAN2	SET UP THE TEST ADDRESS	024250	74 4271
012053	*	INCREMENTATION INSTRUCTION.		
012054	ENTB*BASEADR	ADDRESS 6000 IN THE STACK BEING	024251	32 5620
012055	*	TESTED.		
012056	ENTALK*7		024252	70 0007

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CHANGE 7

TABLE 8-73 PROGRAM LISTING

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0169
012057		STRAL+LOOP2	024253	44	5656	
012060		CL+FAILTEST	024254	40	5646	
012061	*					
012062	TRAN1	ENTAL+N777777	024255	12	6037	
012063		ENTSR+10	024256	5073	10	
012064		ENTAUB*0	024257	11	0000	
012065	*					
012066		STRALB*0	024260	45	0000	
012067		ENTALB*0	024261	13	0000	
012070		STRAUB*0	024262	47	0000	
012071	*					
012072		ENTSR*00	024263	5073	00	
012073		CMAL+N777777	024264	02	6037	
012074		JPEQ+TRAN2	024265	61	4271	
012075		ENTAU+FAILTEST	024266	10	5646	
012076	*					
012077		JPAUNZ+TRANAUNEG	024267	62	4314	
012100	*					
012101		STRB+FAILTEST	024270	42	5646	
012102	*					
012103	TRAN2	ENTBKB*0	024271	37	0000	
012104	*					
012105		ISK+LOOP2	024272	57	5656	
012106	*					
012107		JP+TRAN1	024273	34	4255	
012110		ENTAL+FAILTEST	024274	12	5646	
012111		JPALZ+TRANAUNEG	024275	61	4314	
012112	*					
012113		ADDAL+VERIFY	024276	14	5710	
012114	*					
012115		ENTSR+10	024277	5073	10	

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1389

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1390	012116	STRAL*1	024300	44 0001
	012117	*		
	012120	ENTALK*7777	024301	70 7777
	012121	ENTAUB*0	024302	11 0000
	012122	*		
CHANGE 7	012123	STRALB*0	024303	45 0000
	012124	ENTALB*0	024304	13 0000
	012125	STRAUB*0	024305	47 0000
	012126	*		
	012127	ENTSR*00	024306	5073 00
	012130	CMAL*N777777	024307	02 6037
	012131	*		
	012132	JPEQ*DIODEMTRX	024310	61 4316
	012133	ENTAU*LOOP1	024311	10 5655
	012134	ENTAL*FAILTEST	024312	12 5646
	012135	*		
	012136	JP*EXITTRAN	024313	34 4315
	012137	TRANAUNEG	024314	10 6037
	012140	*		
	012141	EXITTRAN	024315	55 4246
012142	*			
012143	*	DIODEMTRX TESTS ALL MATRIX DIODES EXCEPT X AXIS MATRIX		
012144	*	DIODES 00 THROUGH 07 ON STACK 00.		
012145	*			
012146	DIODEMTRX	ENTAL*HNS	024316	12 5647
012147		STRAL*LOOP1	024317	44 5655
012150	*			
012151	DIOMTRX1	ENTAL*LOOP1	024320	12 5655
012152		LSHAL*14	024321	5046 14
012153		STRAL*BASEADR	024322	44 5620
012154		ENTB*BASEADR	024323	32 5620

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEGNU	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0171
012155	*					
012156		JPALZ*DIOMTRX2	024324	61	4330	
012157		ENTALK*77	024325	70	0077	
012160		STRAL*LOOP2	024326	44	5656	
012161		JP*DIOMTRX3	024327	34	4333	
012162	DIOMTRX2	ENTALK*70	024330	70	0070	
012163		STRAL*LOOP2	024331	44	5656	
012164		ENTBKB*0700	024332	37	0700	
012165	DIOMTRX3	ENTALK*0100	024333	70	0100	
012166	*					
012167		STRADR*DIODE3	024334	74	4413	
012170	*					
012171		ENTALK*0001				
012172		STRADR*DIODE4	024335	70	0001	
012173	*		024336	74	4421	
012174	*					
012175	*					
012176	*					
012177		RJP*DIODE	024337	76	4374	
012200	*					
012201		JPALZ*DIOMTRX4	024340	61	4347	
012202	*					
012203	*					
012204		JPAUNZ*DIOMTRX4	024341	62	4347	
012205	*					
012206	*					
012207	*					
012210		ENTAU*LOOP1	024342	10	5655	
012211		RSHAL*6	024343	5042	06	
012212		SLCL*N000077	024344	52	6002	

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

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CHANGE 7

SEGN0	LABEL	STATEMENT	ADDRESS	INSTRUCT
012213	*	BUT THE LOWEST TWO DIGITS.		
012214		STOP*40	024345	5056 40
012215	*	THIS ERROR STOP IS THE RESULT		
012216	*	OF AN X AXIS MATRIX DIODE		
012217	*	FAILURE. THE FAILING STACK IS		
012220	*	DISPLAYED IN THE AU REGISTER.		
012221	*	A NUMBER 0000IJ WHICH INDICATES		
012222	*	THAT ALL ADDRESSES OF THE FORM		
012223	*	STIJXX FAIL, WHERE ST IS THE		
012224	*	FAILING STACK AND XX CAN TAKE		
012225	*	ANY VALUE 00 THROUGH 77, IS		
012226	*	DISPLAYED IN THE AL REGISTER.		
012227		IJP*RECYCLE	024346	55 5677
012230	DI0MTRX4	ENTAL*LOOP1	024347	12 5655
012231		LSHAL*14	024350	5046 14
012232		ADDAL*N007000	024351	14 6023
012233		STRAL*BASEADR	024352	44 5620
012234		ENTB*BASEADR	024353	32 5620
012235	*	ENTER B1 WITH THE Y DIODE MATRIX		
012236		BASE TEST ADDRESS.	024354	70 0077
012237		ENTALK*77	024355	44 5656
		STRAL*LOOP2		
		TEST ALL 64 Y AXIS MATRIX DIODES		
012240	*	ON THE STACK.		
012241		ENTALK*0001	024356	70 0001
012242	*	TEST ADDRESS INCREMENT FOR		
012243		Y AXIS MATRIX DIODES.	024357	74 4413
012244	*	MODIFY TEST ADDRESS		
012245		INCREMENTATION INSTRUCTION.	024360	70 0100
012246		IF A Y AXIS MATRIX DIODE FAILURE	024361	74 4421
012247	*	OCCURS THIS NUMBER IS USED TO		
		FORM A SECOND ADDRESS SERVED		
012250	*	BY THE FAILING DIODE. IF THIS		
012251	*	SECOND ADDRESS ALSO FAILS THE		

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
012252	*			
012253		RJP*DIODE	024362	76 4374
012254	*			
012255		JPALZ*DIOMTRX5	024363	61 4371
012256	*			
012257		JPAUNZ*RANDOM	024364	62 4440
012260	*			
012261	*			
012262	*			
012263		ENTAU*LOOP1	024365	10 5655
012264		SLCL*N000077	024366	52 0002
012265	*			
012266		STOP*40	024367	5056 40
012267	*			
012270	*			
012271		IJP*RECYCLE	024370	55 5677
012272	DIOMTRX5	ISK*LOOP1	024371	57 5655
012273		JP*DIOMTRX1	024372	34 4320
012274		JP*RANDOM	024373	34 4440
012275	*			
012276	*			
012277	*			
012300	DIODE	0	024374	000000
012301		CL*FAILDIODE	024375	40 5644
012302	DIODE1	ENTSR*10	024376	5073 10
012303		ENTAUB*0000	024377	11 0000
012304	*			
012305		ENTALK*7777	024400	70 7777
012306		STRALB*0000	024401	45 0000
012307		ENTALB*0000	024402	13 0000
012310		STRAUB*0000	024403	47 0000

DIODE FAILURE IS VERIFIED.  
 TEST THE Y AXIS DIODE MATRIX FOR  
 STACK (LOOP1).  
 NO TEST ADDRESSES FAILED, GO  
 TEST THE NEXT STACK.  
 MORE THAN ONE TEST ADDRESS  
 FAILED, THE FAILURE IS NOT DUE  
 TO A MATRIX DIODE FAILURE.  
 GO TO RANDOM ERROR STOP RANDOM.  
 FAILING STACK NUMBER TO AU.  
 CLEAR ALL BUT THE LOWEST TWO  
 DIGITS.  
 THIS ERROR STOP IS THE RESULT OF  
 A Y AXIS MATRIX DIODE FAILURE.  
 RECYCLE THE MEMORY TEST.  
 HAVE ALL THE STACK BEEN TESTED?  
 NO, TEST THE NEXT STACK.  
 YES, THE PROGRAM DETECTED A  
 FAILURE BUT WAS UNABLE TO  
 ISOLATE IT. GO TO A RANDOM  
 ERROR STOP.

SEE NOTE 1 IN APPENDIX A.  
 SAVE THE CONTENTS OF THE TEST  
 ADDRESS.  
 STORE 777777 INTO TEST ADDRESS.  
 READ FROM THE TEST ADDRESS.  
 RESTORE THE ORIGINAL CONTENTS

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

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SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
012311	*			
012312		ENTSR*00	024404	5073 00
012313		JPALZ*DIODE2	024405	61 4410
012314	*			
012315		CPAL*0	024406	5061 00
012316		JPALZ*DIODE3	024407	61 4413
012317	*			
012320	DIODE2	ENTAU*FAILDIODE	024410	10 5644
012321	*			
012322	*			
012323	*			
012324	*			
012325		JPAUNZ*DIODE6	024411	62 4437
012326	*			
012327	*			
012330	*			
012331	*			
012332		STRB*FAILDIODE	024412	42 5644
012333	*			
012334	*			
012335	DIODE3	ENTBKB*0	024413	37 0000
012336	*			
012337		ISK*LOOP2	024414	57 5656
012340		JP*DIODE1	024415	34 4376
012341		ENTAU*N000000	024416	10 5770
012342		ENTAL*FAILDIODE	024417	12 5644
012343		JPALZ*DIODE6	024420	61 4437
012344	*			
012345	*			
012346	*			
012347	*			

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING



SEQNO	LABEL	STATEMENT	PAGE ADDRESS	0175 INSTRUCT
012350	*			
012351	*			
012352	DIODE4	ADDALK*0	024421	71 0000
012353	*			
012354		ENTSR*10	024422	5073 10
012355		STRAL*0001	024423	44 0001
012356		ENTAU*0000	024424	11 0000
012357	*			
012360		ENTALK*7777	024425	70 7777
012361		STRALB*0000	024426	45 0000
012362	*			
012363		ENTALB*0000	024427	13 0000
012364	*			
012365		STRAUB*0000	024430	47 0000
012366	*			
012367		ENTSR*00	024431	5073 00
012370		ENTAU*N000000	024432	10 5770
012371		JPALZ*DIODE5	024433	01 4436
012372		CPAL*0	024434	5061 00
012373		JPALZ*RANDOM	024435	01 4440
012374	*			
012375	DIODE5	ENTAL*FAILDIODE	024436	12 5644
012376	*			
012377	*			
012400	DIODE6	IJP*DIODE	024437	55 4374
012401	RANDOM	ENTAU*FAILADR	024440	10 5643
012402		ENTAL*FAILPTTN	024441	12 5645
012403		STOP*40	024442	5056 40
012404	*			
012405	*			
012406	*			

IS TESTED TO VERIFY THE FAILURE.  
 SET UP SECOND ADDRESS SERVED BY THE DIODE.  
 SEE NOTE 1 IN APPENDIX A.  
 SET B1 TO THE NEW TEST ADDRESS. SAVE THE CONTENTS OF THE TEST ADDRESS.  
 STORE 777777 INTO VERIFICATION TEST ADDRESS.  
 READ FROM VERIFICATION TEST TEST ADDRESS.  
 RESTORE THE ORIGINAL CONTENTS OF THE TEST ADDRESS.  
 SEE NOTE 1 IN APPENDIX A.  
 CLEAR THE AU REGISTER.  
 FAILURE VERIFIES GO TO DIODE5.  
 FAILURE DID NOT VERIFY, GO TO THE RANDOM ERROR STOP.  
 ENTER THE AL REGISTER WITH THE VERIFIED FAILING DIODE TEST ADDRESS.  
 EXIT THE DIODE SUBROUTINE.  
 RANDOM ERROR STOP. THIS ERROR STOP OCCURS WHEN THE PROGRAM DETECTS A BIT(S)

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1395

SEGN0	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1396	012407 *	DROPPED FAILURE BUT IS UNABLE		
	012410 *	TO ISOLATE THE FAILURE. THE		
	012411 *	AU REGISTER CONTAINS THE		
	012412 *	FAILING ADDRESS AND THE AL		
	012413 *	REGISTER CONTAINS THE FAILING		
	012414 *	PATTERN. THE CORRECT PATTERN		
	012415 *	IS 777777. NOTE THAT IF ONLY		
	012416 *	ONE BIT IS DROPPED, THE		
	012417 *	POSSIBILITY OF A BAD CORE		
	012420 *	EXISTS.		
	012421 *	IJP*RECYCLE RECYCLE THE MEMORY TEST.	024443	55 5677
CHANGE 7	012422 *			
	012423 *	THE CONTROL ROUTINE USES THE DTCONT SUBROUTINE TO TEST ALL		
	012424 *	OF CONTROL MEMORY USING BOTH 000000 AND 777777 PATTERNS.		
	012425 *	IF ONLY ONE ADDRESS FAILS THE FAILING ADDRESS AND THE		
	012426 *	FAILING PATTERN WILL BE DISPLAYED AT AN ERROR STOP IN		
	012427 *	DTCONT. IF MORE THAN ONE ADDRESS FAILS THE CONTROL		
	012430 *	MEMORY ISOLATION ROUTINE ISOCONT IS REFERENCED.		
	012431 *			
	012432 CONTROL 0	CONTROL MEMORY SUBEXEC.	024444	000000
	012433 ENTAL*CONTROL	STORE ADDR TO RECYCLE TEST	024445	12 4444
	012434	ADDALK*7776 SUBTRACT 1 FROM ENTRY	024446	71 7776
	012435	ENTSR*10 REFERENCE STACK 0	024447	5673 10
	012436	STRAL*SUTCFS STORAGE IN AIMAT	024450	44 5400
	012437	ENTSR*00 REFERENCE CURRENT STACK	024451	5673 00
	012440	ENTALK*0077 SET UP THE DTCONT SUBROUTINE	024452	70 0077
	012441	STRADR*STRA FOR TESTING ADDRESSES 000	024453	74 5702
	012442	STRADR*ENTA THROUGH 077 OF CONTROL MEMORY.	024454	74 5631
	012443	ENTAL*N777777	024455	12 6037
	012444	STRAL*TESTPATTN USE A 777777 PATTERN.	024456	44 5705
	012445	RJP*DTCONT	024457	76 4521

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0177
012446		ENTAL*N000000	024460	12	5770	
012447		STRAL*TESTPATTN	024461	44	5705	
012450		RJP*DTC0NT	024462	76	4521	
012451		ENTALK*0277	024463	70	0277	
012452		STRADR*STRA	024464	74	5702	
						THROUGH 277 OF CONTROL MEMORY.
012453		STRADR*ENTA	024465	74	5631	
012454		ENTAL*N777777	024466	12	6037	
012455		STRAL*TESTPATTN	024467	44	5705	
012456		RJP*DTC0NT	024470	76	4521	
012457		ENTAL*N000000	024471	12	5770	
012460		STRAL*TESTPATTN	024472	44	5705	
012461		RJP*DTC0NT	024473	76	4521	
012462		ENTAL*C0NTSIZE	024474	12	5622	
						256 (DECIMAL< WORDS?
012463	*					NO, EXIT CONTROL SUBROUTINE
012464		JPALZ*C0NTR0L1	024475	61	4520	
012465		ENTALK*0477	024476	70	0477	
012466		STRADR*STRA	024477	74	5702	
012467		STRADR*ENTA	024500	74	5631	
012470		ENTAL*N777777	024501	12	6037	
012471		STRAL*TESTPATTN	024502	44	5705	
012472		RJP*DTC0NT	024503	76	4521	
						ADDRESSES 400 THROUGH 477.
012473		ENTAL*N000000	024504	12	5770	
012474		STRAL*TESTPATTN	024505	44	5705	
012475		RJP*DTC0NT	024506	76	4521	
012476		ENTALK*0677	024507	70	0677	
012477		STRADR*STRA	024510	74	5702	
012500		STRADR*ENTA	024511	74	5631	
012501		ENTAL*N777777	024512	12	6037	
012502		STRAL*TESTPATTN	024513	44	5705	
						THROUGH 677.
012503		RJP*DTC0NT	024514	76	4521	
012504		ENTAL*N000000	024515	12	5770	

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 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1397

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
012505		STRAL*TESTPATTN	024516	44 5705
012506		RJP*DTC0NT	024517	76 4521
012507	CONTROL1	IJP*CONTROL	024520	55 4444
012510	DTC0NT	0	024521	000000
012511		ENTAL*STRA	024522	12 5702
012512		STRAL*DTC0NT1	024523	44 4534
012513		ENTAL*ENTA	024524	12 5631
012514		STRAL*DTC0NT3	024525	44 4541
012515		ENTALK*77	024526	70 0077
012516		STRAL*LOOP1	024527	44 5655
012517		STRAL*LOOP2	024530	44 5656
012520		CL*FAILTEST	024531	40 5646
012521	*			
012522		ENTAL*TESTPATTN	024532	12 5705
012523		ENTSR*10	024533	5073 10
012524	DTC0NT1	STRAL*0	024534	44 0000
012525	*			
012526		ISK*DTC0NT1	024535	57 4534
012527	*			
012530		ISK*LOOP1	024536	57 5655
012531	*			
012532		JP*DTC0NT1	024537	34 4534
012533	*			
012534	DTC0NT2	ENTSR*10	024540	5073 10
012535	DTC0NT3	ENTAL*0	024541	12 0000
012536		ENTSR*00	024542	5073 00
012537		CMAL*TESTPATTN	024543	02 5705
012540		JPEQ*DTC0NT4	024544	61 4552
012541		ENTAU*FAILTEST	024545	10 5646
012542	*			
012543		JPAUNZ*IS0C0NT	024546	62 4566

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0179
012544	*	ISOCONT.				
012545		ENTAU*DTCONT3	024547	10 4541		
012546		STRAU*FAILTEST	024550	46 5646		
012547		STRAL*FAILPTTN	024551	44 5645		
012550	DTCONT4	ISK*DTCONT3	024552	57 4541		
012551		ISK*LOOP2	024553	57 5656		
012552	*	HAVE ALL 100 ADDRESSES BEEN CHECKED?				
012553		JP*DTCONT2	024554	34 4540		
012554		ENTAL*FAILTEST	024555	12 5646		
012555		JPALZ*DTCONT5	024556	61 4565		
012556		SLCL*N007777	024557	52 6025		
012557		LSHA*22	024560	5047 22		
012560		ENTAL*FAILPTTN	024561	12 5645		
012561		RJP*IFERR PROPER ERROR OCCUR	024562	76 4776		
012562		IRJP*MEDAMAT REFER TO AIMAT	024563	30 5650		
012563	*	THIS ERROR STOP IS THE RESULT OF				
012564	*	ONLY ONE ADDRESS FAILING ON A				
012565	*	HALF PLANE (64 ADDRESSES). THE				
012566	*	FAILING ADDRESS IS DISPLAYED				
012567	*	IN THE AU REGISTER AND THE				
012570	*	FAILING PATTERN IS DISPLAYED				
012571	*	IN THE AL REGISTER.				
012572		IJP*RECYCLE	024564	55 5677		
012573	DTCONT5	IJP*DTCONT	024565	55 4521		
012574	*					
012575	*	THE ISOCONT SUBROUTINE IS USED TO ISOLATE CONTROL MEMORY				
012576	*	ADDRESS TRANSLATION, OR SENSE AMPLIFIER, OR DIGIT				
012577	*	DRIVER FAILURES.				
012600	*					
012601	ISOCONT	RJP*ERRIS ISOLATION ERROR	024566	76 5016		
012602	*	SUBROUTINE.				

CHANGE 7 8-1399

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1400	012603	ENTALK*7	024567	70 0007
	012604	STRAL*L00PCOUNT	024570	44 5660
	012605	*		
	012606	ENTAL*N777777	024571	12 6037
	012607	STRAL*TESTPATTN	024572	44 5705
CHANGE 7	012610	CL*EC1	024573	40 5627
	012611	CL*EC2	024574	40 5630
	012612	ENTALK*0010	024575	70 0010
	012613	STRAL*INCREM	024576	44 5654
	012614	ENTALK*0000	024577	70 0000
	012615	RJP*IC0N	024600	76 4720
	012616	*		
	012617	ENTALK*0200	024601	70 0200
	012620	RJP*IC0N	024602	76 4720
	012621	*		
	012622	JPAUZ*IS0C0NT1	024603	60 4613
	012623	*		
	012624	*		
	012625	CMAL*N177777	024604	02 6034
	012626	JPEQ*IS0C0NT1	024605	61 4613
	012627	*		
	012630	ENTAU*EC1	024606	10 5627
012631	ENTAL*EC2	024607	12 5630	
012632	RJP*IFERR	024610	76 4776	
012633	IRJP*MEDAMAT	024611	30 5650	
012634	*			
012635	*			
012636	*			
012637	IJP*RECYCLE	024612	55 5677	
012640	IS0C0NT1	RJP*ERRIS	024613	76 5016
012641		CL*EC1	024614	40 5627

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
012642		CL*EC2	024615	40 5630
012643		ENTALK*0001	024616	70 0001
012644		STRAL*INCREM	024617	44 5654
012645		ENTALK*0000	024620	70 0000
012646		RJP*IC0N	024621	76 4720
012647	*			
012650		ENTAL*CONTSIZE	024622	12 5622
012651	*			
012652		JPALZ*IS0CONT2	024623	61 4636
012653		ENTALK*0400	024624	70 0400
012654		RJP*IC0N	024625	76 4720
012655	*			
012656		JPAUZ*IS0CONT4	024626	60 4656
012657	*			
012660	*			
012661	*			
012662		CMAL*N177777	024627	02 6034
012663		JPE0*IS0CONT4	024630	61 4656
012664	*			
012665	*			
012666	*			
012667		ENTAU*EC1	024631	10 5627
012670		ENTAL*EC2	024632	12 5630
012671		RJP*IFERR	024633	76 4776
012672		IRJP*MEDAMAT	024634	30 5650
012673	*			
012674	*			
012675	*			
012676	*			
012677	*			
012700		IJP*RECYCLE	024635	55 5677

INITIATE EC2 ERROR FLAG.  
 SET THE TEST ADDRESS INCREMENT  
 TO 0001  
 BASE TEST ADDRESS.  
 CHECK THE FIRST EIGHT WD CIRCUIT  
 TEST ADDRESSES.  
 ARE THERE 256 WORDS OF CONTROL  
 MEMORY?  
 NO, GO TO IS0CONT2.  
 YES, BASE TEST ADDRESS.  
 CHECK THE REMAINING EIGHT WD  
 CIRCUIT TEST ADDRESSES.  
 IF NONE OF THE TEST ADDRESSES  
 FAIL, GO TEST THE CONTROL  
 MEMORY SENSE AMPLIFIERS AND  
 DIGIT DRIVERS.  
 IF ALL OF THE TEST ADDRESSES  
 FAIL GO TEST CONTROL MEMORY  
 SENSE AMPLIFIER AND DIGIT  
 DRIVERS.  
 BOOTSTRAP.

PROPER ERROR OCCUR  
 REFER TO AIMAT  
 THIS ERROR STOP IS FOR THE 256  
 WORD CONTROL MEMORY ONLY.  
 THE STOP IS THE RESULT OF A  
 WD OR SC CIRCUIT FAILURE IN  
 THE CONTROL MEMORY.  
 RECYCLE THE MEMORY TEST.

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1401

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
012701	*	ISOCONT2 AND ISOCONT3 ARE USED FOR		
012702	*	THE 128 WORD CONTROL MEMORY.		
012703	ISOCONT2	RJP*ERRIS ISOLATION ERROR	024636	76 5016
012704		JPAUZ*ISOCONT3 IF NO WG TEST ADDRESSES FAILED	024637	60 4650
012705	*	GO TO ISOCONT3.		
012706		ENTAL*EC1 IF ALL WG TEST ADDRESSES FAILED	024640	12 5627
012707		CMAL*N000377 GO TO ISOCONT3.	024641	02 6010
012710		JPEG*ISOCONT3	024642	61 4650
012711	*	BOOTSTRAP.		
012712		ENTAU*EC1	024643	10 5627
012713		ENTAL*EC2	024644	12 5630
012714		RJP*IFERR PROPER ERROR OCCUR	024645	76 4776
012715		IRJP*MEDAMAT REFER TO AIMAT	024646	30 5650
012716	*	THIS ERROR STOP IS FOR THE 128		
012717	*	WORD MEMORY ONLY.		
012720	*	THIS ERROR STOP IS THE RESULT		
012721	*	OF A WD OR SC CIRCUIT FAILURE		
012722	*	IN CONTROL MEMORY.		
012723		IJP*RECYCLE RECYCLE THE MEMORY TEST.	024647	55 5677
012724	ISOCONT3	RJP*ERRIS ISOLATION ERROR	024650	76 5016
012725		RJP*SPCONT CHK DIODES ON PIN 14 OF 10WD00	024651	76 5103
012726	*	THROUGH 10WD03.		
012727		JPAUZ*ISOCONT4 IF NO DIODES FAIL GO TEST THE	024652	60 4656
012730	*	CONTROL MEMORY SENSE AMPLIFIERS		
012731	*	AND DIGIT DRIVERS.		
012732		RJP*IFERR PROPER ERROR OCCUR	024653	76 4776
012733		IRJP*MEDAMAT REFER TO AIMAT	024654	30 5650
012734	*	IF AU EQUALS 000017 REPLACE		
012735	*	BJ22C(008C08, <, CARD TYPE		
012736	*	3621.		

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING



SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
012737	*	OTHERWISE, REPLACE 8J25D		
012740	*	(10WD00 = 10WD03<, CARD TYPE		
012741	*	3680.		
012742		IJP*RECYCLE RECYCLE THE MEMORY TEST.	024655	55 5677
012743	IS0CONT4	RJP*ERRIS ISOLATION ERROR	024656	76 5016
012744		CL*EC1 INITIATE THE EC1 ERROR FLAG	024657	40 5627
012745		CL*EC2 INITIATE THE EC2 ERROR FLAG.	024660	40 5630
012746		ENTALK*3 SET UP ICON LOOP COUNT	024661	70 0003
012747		STRAL*LOOPCOUNT FOR TESTING SENSE AMPS AND	024662	44 5660
012750	*	DIGIT DRIVERS.		
012751		ENTALK*0200 SET THE TEST ADDRESS INCREMENT TO	024663	70 0200
012752		STRAL*INCREM 000200.	024664	44 5654
012753		ENTAU*N777777	024665	10 6037
012754		STRAU*TESTPATTN USE A 777777 PATTERN.	024666	46 5705
012755		RJP*ICON TEST FOR BITS DROPPED.	024667	76 4720
012756		ENTAU*N000000	024670	10 5770
012757		STRAU*TESTPATTN USE A 000000 PATTERN.	024671	46 5705
012760		RJP*ICON TEST FOR BITS PICKED UP.	024672	76 4720
012761		ENTAL*CONTSIZE ARE THERE 256 WORDS OF CONTROL	024673	12 5622
012762	*	MEMORY.		
012763		JPALZ*IS0CONT5 NO, GO TO IS0CONT5.	024674	61 4702
012764		ENTAU*EC1 YES.	024675	10 5627
012765		ENTAL*FAILPTN	024676	12 5645
012766		RJP*IFERR PROPER ERROR OCCUR	024677	76 4776
012767		IRJP*MEDAMAT REFER TO AIMAT	024700	30 5650
012770	*	THIS ERROR STOP IS FOR A CONTROL		
012771	*	MEMORY SENSE AMP OR DIGIT		
012772	*	DRIVER FAILURE FOR 256 WORDS.		
012773	*	AU CONTAINS A FAIL INDICATING		
012774	*	THE HALF PLANES FAILING AND AL		

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7

8-1403

SEONO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1404				
012775	*	CONTAINS THE FAILING PATTERN.		
012776		IJP*RECYCLE RECYCLE THE MEMORY TEST.	024701	55 5677
012777	IS0CONT5	RJP*ERRIS ISOLATION ERROR	024702	76 5016
013000		ENTAL*EC1 CLEAR ERROR BITS REPRESENTING	024703	12 5627
013001		8LCL*N000314 THE NONEXISTENT HALF PLANES OF	024704	52 6006
CHANGE 7				
013002	*	CONTROL MEMORY (400-477 AND		
013003	*	600-6774.		
013004		LSHA*22	024705	5047 22
013005		ENTAL*FAILPTN FAILING PATTERN TO AL.	024706	12 5645
013006		RJP*IFERR PROPER ERROR OCCUR	024707	76 4776
013007		N0=0P	024710	5047 00
013010		IRJP*MEDAMAT REF AIMAT	024711	30 5650
013011	*	THIS ERROR STOP IS THE RESULT		
013012	*	OF A CONTROL MEMORY SENSE AMP,		
013013	*	DIGIT DRIVER, OR TIMING FAILURE.		
013014		IJP*RECYCLE RECYCLE THE MEMORY TEST.	024712	55 5677
013015	DTC0NT58	ENTAL*SAVENT SAVE ENTRY EQUAL	024713	12 5015
013016		CMAL*DTC0NT LAST ENTRY	024714	02 4521
013017		JPEQ*DTC0NT5A YES	024715	01 4717
013020		IJP*DTC0NT NO EXIT	024716	55 4521
013021	DTC0NT5A	IRJP*MEDAMAT REFER TO AIMAT	024717	30 5650
013022	*			
013023	*	THE ICON SUBROUTINE TESTS EIGHT ADDRESSES SPECIFIED BY		
013024	*	THE IS0CONT ROUTINE. THE TEST RESULTS ARE RECORDED IN		
013025	*	TWO ERROR ERROR FLAGS.		
013026	*			
013027	ICON	0	024720	000000
013030		STRADR*ICON2 PRESTORE THE WRITE IN TEST	024721	74 4733
013031	*	ADDRESS INSTRUCTION.		
013032		STRADR*ICON3 PRESTORE THE FIRST READ FROM	024722	74 4734

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0185
013033	*					
013034		STRADR*IC0N6	024723	74 4756		
013035	*					
013036		ENTAL*LOOPCOUNT	024724	12 5660		
013037		STRAL*LOOP1	024725	44 5655		
013040		STRAL*LOOP2	024726	44 5656		
013041		ENTAU*EC1	024727	10 5627		
013042	IC0N1	LSHAU*1	024730	5045 01		
013043	*					
013044	*					
013045		ENTAL*TESTPATTN	024731	12 5705		
013046		ENTSR*10	024732	5073 10		
013047	IC0N2	STRAL*0	024733	44 0000		
013050	IC0N3	ENTAL*0	024734	12 0000		
013051		ENTSR*00	024735	5073 00		
013052		CMAL*TESTPATTN	024736	02 5705		
013053		JPEQ*IC0N4	024737	61 4744		
013054	*					
013055		STRAL*FAILPTN	024740	44 5645		
013056		LSHA*22	024741	5047 22		
013057		SLSET*BIT00	024742	51 5711		
013060		LSHA*22	024743	5047 22		
013061	IC0N4	ENTAL*IC0N2	024744	12 4733		
013062		ADDAL*INCREM	024745	14 5654		
013063		STRADR*IC0N2	024746	74 4733		
013064		STRADR*IC0N3	024747	74 4734		
013065		ISK*LOOP1	024750	57 5655		
013066	*					
013067		JP*IC0N1	024751	34 4730		
013070		STRAU*EC1	024752	46 5627		
013071		ENTAU*EC2	024753	10 5630		

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 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
013072	ICON5	LSHAU*1	024754	5045 01
013073	*	PREPARE EC2 ERROR FLAG FOR THE RESULTS OF THE NEXT TEST ADDRESS.		
013074	*			
013075		ENTSR*10	024755	5073 10
013076	ICON6	ENTAL*0	024756	12 0000
013077		ENTSR*00	024757	5073 00
013100		CMAL*TESTPATTN	024760	02 5705
013101	*			
013102		JPEQ*ICON7	024761	61 4765
013103	*			
013104		LSHA*22	024762	5047 22
013105		SLSET*BIT00	024763	51 5711
013106		LSHA*22	024764	5047 22
013107	ICON7	ENTAL*ICON6	024765	12 4756
013110		ADDAL*INCREM	024766	14 5654
013111		STRADR*ICON6	024767	74 4756
013112	*			
013113		ISK*LOOP2	024770	57 5656
013114	*			
013115		JP*ICON5	024771	34 4754
013116		STRAU*EC2	024772	46 5630
013117		ENTAU*EC1	024773	10 5627
013120		ENTAL*EC2	024774	12 5630
013121		IJP*ICON	024775	55 4720
013122	IFERR	0	024776	000000
013123		STRAL*ALSAVM	024777	44 5013
013124		STRAU*AUSAVE	025000	46 5014
013125		ENTAL*SAVENT	025001	12 5015
013126		JPALZ*IFERRA	025002	61 5006
013127		SUBAL*DTCONT	025003	16 4521
013130		JPALP*IFERRA	025004	65 5006

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CHANGE 7

TABLE 8-73 PROGRAM LISTING

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

SEONO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0187
013131		IRJP+MEDRUNT REFER TO RUNENT	025005	30 5653		
013132	IFERRA	ENTAL+DTCNT SAVE NEW ENTRY VALUE	025006	12 4521		
013133		STRAL+SAVENT	025007	44 5015		
013134		ENTAL+ALSAVM RESTORE AL	025010	12 5013		
013135		STRAL+AUSAVE AND AU	025011	44 5014		
013136		IJP+IFERR	025012	55 4776		
013137	ALSAVM	0	025013	000000		
013140	AUSAVE	0	025014	000000		
013141	SAVENT	0 CLEAR ON LOAD	025015	000000		
013142	ERRIS	0 DETERMINE IF PREVIOUS ERROR OCCURRED	025016	000000		
013143		STRAL+ALSAVM SAVE AL VALUE	025017	44 5013		
013144		STRAU+AUSAVE SAVE AU VALUE	025020	46 5014		
013145		ENTAL+SAVENT PREVIOUS ERROR	025021	12 5015		
013146		JPALZ+ERRISC NO CONTINUE	025022	61 5036		
013147		CMAL+DTCNT NEW ENTRY EQUAL LAST ONE	025023	62 4521		
013150		JPEG+ERRISA YES	025024	61 5026		
013151		JP+ERRISC NO CONTINUE	025025	34 5036		
013152	ERRISA	ENTAL+ERRIS ENTRY VALUE	025026	12 5016		
013153		ADDALK+7775 SUBTRACT 2	025027	71 7775		
013154		ADDAL+ERRISD ADD ENTAL INSTR	025030	14 5041		
013155		STRAL+ERRISB STORE FOR EXECUTION	025031	44 5032		
013156	ERRISB	0 ENTAL INSTRUCTION	025032	000000		
013157		CMAL+ERRISE PREVIOUS ERROR OCCUR	025033	62 5042		
013158		JPEG+ERRISC NO	025034	61 5036		
013161		IRJP+MEDRUNT REFER TO RUNENT	025035	30 5653		
013162	ERRISC	ENTAL+ALSAVM RESTORE SL	025036	12 5013		
013163		ENTAU+AUSAVE AND AU	025037	10 5014		
013164		IJP+ERRIS EXIT	025040	55 5016		
013165	ERRISD	100000	025041	100000		
013166	ERRISE	IJP+RECYCLE	025042	55 5677		
013167	ERRIB	0	025043	000000		

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 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
013170		STRAL*ALSAVM SAVE AL VALUE	025044	44 5013
013171		STRAU*AUSAVE SAVE AU VALUE	025045	46 5014
013172		ENTAL*ERRB0 ENTRY VALUE	025046	12 5043
013173		ADDALK*7775 SUBTRACT 2	025047	71 7775
013174		ADDAL*ERRISD ADD ENTAL INSTR	025050	14 5041
013175		STRAL*ERRB0A STORE FOR EXECUTION	025051	44 5052
013176	ERRB0A	0 ENTAL INSTRUCTION	025052	000000
013177		CMAL*ERRISE PREVIOUS ERROR OCCUR	025053	02 5042
013200		JPEQ*ERRB0B NO	025054	01 5057
013201		SLCL*N007777	025055	02 0025
013202		IRJP*MEDRUNT REFER TO RUNENT	025056	30 5053
013203	ERRB0B	ENTAL*ALSAVM RESTORE AL	025057	12 5013
013204		ENTAU*AUSAVE AND AU	025060	10 5014
013205		IJP*ERRB0 EXIT	025061	55 5043
013206	MEMER	0	025062	000000
013207		STRAL*ALSAVM SAVE AL VALUE	025063	44 5013
013210		STRAU*AUSAVE SAVE AU VALUE	025064	46 5014
013211		ENTAL*MAINRY PREVIOUS ERROR	025065	12 5102
013212		JPALZ*MEMERA NO	025066	01 5077
013213		SUBAL*MAIN YES, OLD ENTRY GREATER OR	025067	16 2236
013214		JPALP*MEMERA EQUAL TO NEW ENTRY	025070	05 5077
013215	MEMERC	ENTAL*INSTK0 IN STK 0 ?	025071	12 2255
013216		JPALZ*MEMERB YES	025072	01 5075
013217		ENTSR*16 NO REFERENCE STK 6	025073	5073 16
013220		IRJP*MEDRUNT REFER TO RUNENT	025074	30 5053
013221	MEMERB	IRJP*MEDRUNT	025075	30 5053
013222		IRJP*MEDRUNT REFER TO RUNENT	025076	30 5053
013223	MEMERA	ENTAL*MAIN SAVE NEW ENTRY VALUE	025077	12 2236
013224		STRAL*MAINRY	025100	44 5102
013225		IJP*MEMER EXIT	025101	55 5062
013226	MAINRY	0	025102	000000

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TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
013227	*			
013230	*	SPCONT IS USED TO CHECK CONTROL MEMORY ADDRESS		
013231	*	TRANSLATION CIRCUITRY NOT CHECKED BY ICON FOR 128 WORDS.		
013232	*			
013233	SPCONT	0	025103	000000
013234		ENTSR*10 SEE NOTE 1 IN APPENDIX A.	025104	5073 10
013235		CL*0200	025105	40 0200
013236		CL*0202	025106	40 0202
013237		CL*0204	025107	40 0204
013240		CL*0206	025110	40 0206
013241		ENTALK*7777	025111	70 7777
013242		STRAL*0600	025112	44 0600
013243		STRAL*0602 WRITE 777777 INTO ADDRESSES 600, 602, 604, AND 606.	025113	44 0602
013244		STRAL*0604	025114	44 0604
013245		STRAL*0606	025115	44 0606
013246		ENTALK*0000	025116	70 0000
013247		ENTAU*0200	025117	10 0200
013250		JPAUZ*L0K+2	025120	60 5122
013251		ADDALK*0001	025121	71 0001
013252		ENTAU*0202	025122	10 0202
013253		JPAUZ*L0K+2	025123	60 5125
013254		ADDALK*0002	025124	71 0002
013255		ENTAU*0204	025125	10 0204
013256		JPAUZ*L0K+2	025126	60 5130
013257		ADDALK*0004	025127	71 0004
013260		ENTAU*0206	025130	10 0206
013261		JPAUZ*L0K+2	025131	60 5133
013262		ADDALK*0010	025132	71 0010
013263		ENTSR*00	025133	5073 00
013264		LSHA*22	025134	5047 22
013265		ENTALK*0000	025135	70 0000

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 TABLE 8-73 PROGRAM LISTING

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SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
013266		IJP*SPC0NT EXIT THE SPC0NT SUBROUTINE.	025136	55 5103
013267	*			
013270	*	THE BOOT SUBROUTINE TESTS THE BOOTSTRAP ADDRESS		
013271	*	TRANSLATION AND SENSE AMPLIFIERS.		
013272	*			
013273	BOOT	0*0	025137	00 0000
013274		ENTAL*BOOT STR ADDRS TO RECYCLE TEST	025140	12 5137
013275		ADDALK*7776 SUBTRACT 1 FROM ENTRY	025141	71 7776
013276		ENTSR*10 REFERENCE STACK 0	025142	5073 10
013277		STRAL*SUTCFS STORAGE IN A IMAT	025143	44 5400
013300		ENTSR*00 REFERENCE CURRENT STACK	025144	5073 00
013301		ENTALK*1 TEST ADDRESS INCREMENT	025145	70 0001
013302		STRADR*TRANBOOT2 SET UP THE TRANBOOT SUBROUTINE	025146	74 5331
013303		STRADR*TRANBOOT4 FOR TESTING FOR AN OPEN OR	025147	74 5347
013304		ENTALK*7 SHORTED TRANSISTOR ON A	025150	70 0007
013305		STRAL*L00PC0UNT BOOTSTRAP GROUP SELECTION	025151	44 5660
013306	*	CARD.		
013307		ENTAL*N777777 INITIATE THE ERROR FLAG.	025152	12 0037
013310		STRAL*EB	025153	44 5026
013311		ENTALK*0500 BASE TEST ADDRESS 500.	025154	70 0500
013312		RJP*TRANBOOT TEST ADDRESSES 500 - 507.	025155	76 5314
013313		ENTALK*0510 BASE TEST ADDRESS 510.	025156	70 0510
013314		RJP*TRANBOOT TEST ADDRESSES 510 - 517.	025157	76 5314
013315		ENTALK*0520 BASE TEST ADDRESS 520.	025160	70 0520
013316		RJP*TRANBOOT TEST ADDRESSES 520 - 527.	025161	76 5314
013317	*	IS ANY BOOT STRAP GROUP SELECTION		
013320	*	TRANSISTOR OPEN OR SHORTED?		
013321		JPAUZ*BOOT1 NO, GO TEST THE BOOTSTRAP DIODE	025162	60 5165
013322	*	SELECTION CARD FOR AN OPEN OR		
013323	*	SHORTED TRANSISTOR.		
013324		IRJP*MEDAMAT REFER TO AIMAT	025163	30 5650

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 TABLE 8-73 PROGRAM LISTING



SEGN0	LABEL	STATEMENT	ADDRESS	INSTRUCT
013325	*	ERROR FLAG DISPLAYED IN AU AND		
013326	*	AL CLEARED.		
013327	*	THIS ERROR STOP IS FOR AN OPEN OR		
013330	*	SHORTED TRANSISTOR ON A		
013331	*	BOOTSTRAP GROUP SELECTION		
013332	*	TRANSLATION CARD.		
013333	*	FOR AN INTERPRETATION OF THE		
013334	*	ERROR FLAG, SEE NOTE 3 OF		
013335	*	APPENDIX A.		
013336		IJP*RECYCLE RECYCLE THE MEMORY TEST.	025164	55 5677
013337	BOOT1	RJP*ERRB0 PREVIOUS ERROR OCCUR	025165	76 5043
013340		ENTALK*10 TEST ADDR5 INCREMENT	025166	70 0010
013341		STRADR*TRANBOOT2 SET UP THE TRANBOOT SUBROUTINE	025167	74 5331
013342		STRADR*TRANBOOT4 FOR TESTING FOR AN OPEN OR	025170	74 5347
013343		ENTALK*3 SHORTED TRANSISTOR ON A	025171	70 0003
013344		STRAL*LOOPCOUNT BOOTSTRAP DIODE SELECTION	025172	44 5660
013345	*	CARD.		
013346		ENTAL*N777777 INITIATE THE ERROR FLAG.	025173	12 0037
013347		STRAL*EB	025174	44 5626
013350		ENTALK*0500 BASE TEST ADDRESS 500.	025175	70 0500
013351		RJP*TRANBOOT TEST ADDRESSES 500, 510, 520 AND	025176	76 5314
013352	*	530.		
013353		ENTALK*0501 BASE TEST ADDRESS 501.	025177	70 0501
013354		RJP*TRANBOOT TEST ADDRESSES 501, 511, 521 AND	025200	76 5314
013355	*	531.		
013356		ENTALK*0502 BASE TEST ADDRESS 502.	025201	70 0502
013357		RJP*TRANBOOT TEST ADDRESSES 502, 512, 522 AND	025202	76 5314
013360	*	532.		
013361		ENTALK*0503 BASE TEST ADDRESS 503.	025203	70 0503
013362		RJP*TRANBOOT TEST ADDRESSES 503, 513, 523 AND	025204	76 5314
013363	*	533.		

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 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1412		013364 * IS ANY BOOTSTRAP DIODE SELECTION		
		013365 * TRANSISTOR OPEN OR SHORTED?		
		013366 * JPAUZ*BOOT2 NO, GO TEST THE BOOTSTRAP GROUP	025205	60 5210
		013367 * SELECTION CARDS FOR AN OPEN		
		013370 * INPUT DIODE.		
CHANGE 7		013371 * IRJP*MEDAMAT REFER TO AIMAT	025206	30 5650
		013372 * THE ERROR FLAG DISPLAYED IN		
		013373 * AU AND AL CLEARED.		
		013374 * THIS ERROR STOP IS FOR AN OPEN		
		013375 * OR SHORTED TRANSISTOR ON A		
		013376 * BOOTSTRAP DIODE SELECTION		
		013377 * TRANSLATION CARD.		
		013400 * FOR AN INTERPRETATION OF THE		
		013401 * ERROR FLAG, SEE NOTE 4 IN		
		013402 * APPENDIX A.		
		013403 * IJP*RECYCLE RECYCLE THE MEMORY TEST.	025207	55 5677
	B00T2	013404 * RJP*ERR00 PREVIOUS ERROR OCCUR	025210	76 5043
		013405 * ENTALK*1 TEST ADDR5 INCREMENT	025211	70 0001
		013406 * STRADR*DI0B00T2 SET UP THE DI0B00T SUBROUTINE	025212	74 5404
		013407 * STRADR*DI0B00T5 FOR TESTING FOR AN OPEN INPUT	025213	74 5433
		013410 * ENTALK*6 DIODE ON A BOOTSTRAP GROUP	025214	70 0006
		013411 * STRAL*LOOPCOUNT SELECTION CARD.	025215	44 5660
		013412 * ENTAL*N777777 INITIATE THE ERROR FLAG.	025216	12 6037
		013413 * STRAL*EB	025217	44 5626
		013414 * ENTALK*0500 BASE TEST ADDRESS 500.	025220	70 0500
		013415 * RJP*DI0B00T TEST ADDRESSES 500 - 507.	025221	76 5360
		013416 * ENTALK*0510 BASE TEST ADDRESS 510.	025222	70 0510
		013417 * RJP*DI0B00T TEST ADDRESSES 510 - 517.	025223	76 5360
		013420 * ENTALK*0520 BASE TEST ADDRESS 520.	025224	70 0520
		013421 * RJP*DI0B00T TEST ADDRESSES 520 - 527.	025225	76 5360
		013422 * IS THERE AN OPEN INPUT DIODE ON		

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 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0103
013423	*					
013424	*					
013425		JPAUZ*B00T3	025226	60	5231	
013426	*					
013427	*					
013430		IRJP*MEDAMAT	025227	30	5650	
013431	*					
013432	*					
013433	*					
013434	*					
013435	*					
013436	*					
013437	*					
013440	*					
013441		IJP*RECYCLE	025230	55	5677	
013442	B00T3	RJP*ERR00 PREVIOUS ERROR OCCUR	025231	76	5943	
013443		ENTALK*10 TEST ADDR5 INCREMENT	025232	70	0010	
013444		STRADR*DI0B00T2 SET UP THE DI0B00T SUBROUTINE	025233	74	5404	
013445		STRADR*DI0B00T5 FOR TESTING FOR AN OPEN INPUT	025234	74	5433	
013446		ENTALK*2 DIODE ON A BOOTSTRAP DIODE	025235	70	0002	
013447		STRAL*L00PC0UNT SELECTION CARD.	025236	44	5660	
013450		ENTAL*N777777 INITIATE THE ERROR FLAG.	025237	12	6037	
013451		STRAL*EB	025240	44	5626	
013452		ENTALK*0500 BASE TEST ADDRESS 500.	025241	70	0500	
013453		RJP*DI0B00T TEST ADDRESSES 500, 510, 520 AND	025242	76	5360	
013454	*	530.				
013455		ENTALK*0501 BASE TEST ADDRESS 501.	025243	70	0501	
013456		RJP*DI0B00T TEST ADDRESSES 501, 511, 521 AND	025244	76	5360	
013457	*	531.				
013460		ENTALK*0502 BASE TEST ADDRESS 502.	025245	70	0502	
013461		RJP*DI0B00T TEST ADDRESSES 502, 512, 522 AND	025246	76	5360	

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 TABLE 8-73 PROGRAM LISTING

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SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1414	013462 *	532.		
	013463	ENTALK*0503	025247	70 0503
	013464	RJP*DI0B00T	025250	76 53 0
	013465 *	533.		
	013466 *	S THERE AN OPEN INPUT D 0DE 0N		
	013467 *	ANY BOOTSTRAP DIODE SE ECTION		
	013470 *	TRANSLATION CARD.		
	013471	JPAUZ*B00T4	025251	60 52 4
	013472 *	0, G0 TEST THE BOOTSTRA SENSE		
	013473	AMPLIFIERS.	025252	30 56 0
CHANGE 7	013474 *	REFER TO AIMAT		
	013475 *	DISPLAYED IN AU.		
	013476 *	THIS ERROR STOP IS FOR AN OPEN		
	013477 *	INPUT DIODE ON A BOOTSTRAP		
	013477 *	DIODE SELECTION CARD.		
	013500 *	FOR AN INTERPRETATION OF THE		
	013501 *	ERROR FLAG, SEE NOTE 4 IN		
	013502 *	APPENDIX A.		
	013503	IJP*RECYCLE	025253	55 5677
	013504 B00T4	RJP*ERR00 PREVIOUS ERROR OCCUR	025254	76 5043
	013505	RJP*B00TDR0P IS A SINGLE BIT DROPPED IN ALL	025255	76 5446
	013506 *	OF BOOTSTRAP MEMORY?		
	013507	CPAL*0	025256	5061 00
	013510	JPALZ*B00T5	025257	61 5264
	013511	ENTAU*TEMPORARY	025260	10 5703
	013512	ENTAL*N000000	025261	12 5770
	013513	IRJP*MEDAMAT	025262	30 5650
	013514 *	REFER TO AIMAT		
	013515 *	THIS ERROR STOP IS FOR A SINGLE		
	013516 *	BIT POSITION BEING DROPPED FOR		
	013517	FOR ALL OF BOOTSTRAP.		
	013517	IJP*RECYCLE	025263	55 5677
	013520 B00T5	RJP*ERR00 PREVIOUS ERROR OCCUR	025264	76 5043

SEGN0	LABEL	STATEMENT	ADDRESS	INSTRUCT
013521		RJP*B00TPICK IS A SINGLE BIT PICKED UP IN ALL	025265	76 5465
013522	*	OF BOOTSTRAP MEMORY?		
013523		JPALZ*B00T6 NO, GO TEST FOR OPEN BOOTSTRAP	025266	61 5273
013524	*	MATRIX DIODES.		
013525		ENTAU*TEMPORARY YES, ENTER AU WITH THE FAILING	025267	10 5703
013526		ENTAL*N000000 PATTERN AND CLEAR AL.	025270	12 5770
013527		IRJP*MEDAMAT REFER TO AIMAT	025271	30 5650
013530	*	THIS ERROR STOP IS FOR A SINGLE		
013531	*	BIT POSITION BEING PICKED UP		
013532	*	IN ALL OF BOOTSTRAP MEMORY.		
013533		IJP*RECYCLE RECYCLE THE MEMORY TEST.	025272	55 5677
013534	B00T6	RJP*ERR00 PREVIOUS ERROR OCCUR	025273	76 5043
013535		ENTICR*1 ACTIVATE B1	025274	5072 01
013536		ENTBK*500 TEST THE BOOTSTRAP MATRIX DIODES	025275	36 0500
013537	*	FOR ADDRESSES 500 THROUGH 534.		
013540	B00T7	ENTSR*10 SEE NOTE 1 IN APPENDIX A.	025276	5073 10
013541		ENTALB*0 READ UP THE CONTENTS OF THE	025277	13 0000
013542	*	CURRENT TEST ADDRESS.		
013543		ENTAU*0001 ENTER THE CURRENT TEST ADDRESS	025300	10 0001
013544	*	INTO AU.		
013545		ENTSR*00 SEE NOTE 2 IN APPENDIX A.	025301	5073 00
013546	*	DID THE TEST ADDRESS FAIL.		
013547		JPALNZ*B00T8 NO, TEST THE NEXT ADDRESS.	025302	63 5305
013550		JP*B00T9 GO TO AIMAT	025303	34 5310
013551	*	THIS ERROR STOP IS FOR A FAILING		
013552	*	BOOTSTRAP MATRIX DIODE. THE		
013553	*	ADDRESS THE DIODE SERVES IS		
013554	*	DISPLAYED IN AU.		
013555		IJP*RECYCLE RECYCLE THE MEMORY TEST.	025304	55 5677
013556	B00T8	BSK*N000534 HAVE ALL THE ADDRESSES BEEN	025305	56 0013
013557	*	TESTED?		

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 TABLE 8-73 PROGRAM LISTING

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SEGNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
013560		JP*B00T7 0, CHECK THE NEXT ADDRESS.	025306	34 52 6
013561		JP*B00T10 G0 CHECK PREVIOUS ERROR	025307	34 53 2
013562	B00T9	IRJP*MEDAMAT REFER TO AIMAT	025310	30 5650
013563		IJP*RECYCLE RECYCLE THE MEMORY TEST	025311	55 5677
013564	B00T10	RJP*ERRB0 PREVIOUS ERROR OCCUR	025312	76 5043
013565		IJP*B00T YES, EXIT FROM THE B00T	025313	55 5137
013566	*	SUBROUTINE.		
013567	*			
013570	*	THE TRANB00T SUBROUTINE IS USED TO TEST FOR OPEN OR		
013571	*	SHORTED TRANSISTORS ON B00TSTRAP ADDRESS TRANSLATION		
013572	*	CARDS.		
013573	*			
013574	TRANB00T	0*0	025314	00 0000
013575		STRAL*BASEADR STORE THE BASE TEST ADDRESS FOR	025315	44 5020
013576	*	THIS REFERENCE OF TRAN 00T.		
013577		ENTAL*N777777 INITIATE TEST RESULT STO AGE	025316	12 60 7
013600		STRAL*TEMPORARY	025317	44 57 3
013601		ENTAL*L00PCOUNT	025320	12 56 0
013602		STRAL*L00P1 ET UP L00PCOUNTS FOR L0 P1 AND	025321	44 5655
013603		STRAL*L00P2 LOOP2.	025322	44 56 6
013604		ENTB*BASEADR ET B1 TO THE BASE TEST ADDRESS.	025323	32 56 0
013605	TRANB00T1	ENTSR*10 SEE NOTE 1 IN APPENDIX A	025324	5073 10
013606		ENTALB*0 READ UP THE CONTENTS OF THE TEST	025325	13 0000
013607	*	ADDRESS.		
013610		ENTSR*00 SEE NOTE 2 IN APPENDIX A.	025326	5073 00
013611		SLCL*TEMPORARY FORM THE BIT BY BIT LOGICAL	025327	52 5703
013612		STRAL*TEMPORARY PRODUCT OF THE CONTENTS OF	025330	44 5703
013613	*	THE CURRENT TEST ADDRESS WITH		
013614	*	THE LOGICAL PRODUCT OF THE		
013615	*	PREVIOUS TEST ADDRESSES.		
013616	TRANB00T2	ENTBKB*0 INCREMENT B1 TO THE NEXT TEST	025331	37 0000

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 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0197
013617	*					
013620		ISK*LOOP1			025332	57 5655
013621	*					
013622		JP*TRANBOOT1			025333	34 5324
013623	*					
013624	*					
013625	*					
013626	*					
013627	*					
013630	*					
013631	*					
013632	*					
013633	*					
013634	*					
013635	*					
013636	*					
013637	*					
013640	*					
013641		ENTB*BASEADR			025334	32 5620
013642		ENTAU*N000000			025335	10 5770
013643	*					
013644	TRANBOOT3	LSHAU+1			025336	5045 01
013645	*					
013646	*					
013647		ENTSR+10			025337	5073 0
013650		ENTALB*0			025340	13 0000
013651	*					
013652		ENTSR+00			025341	5073 00
013653		CMAL*TEMPORARY			025342	02 5703
013654		JPN0T*TRANBOOT4			025343	63 5347
013655	*					

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 TABLE 8-73 PROGRAM LISTING

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SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1418 013656		LSHA*22	025344	5047 22
013657		SLSET*BIT00	025345	51 5711
013660		LSHA*22	025346	5047 22
013661	TRANBOOT4	ENTBKB*0	025347	37 0000
013662	*			
		INCREMENT B1 TO THE NEXT TEST ADDRESS.		
013663		ISK*LOOP2	025350	57 5656
013664	*			
		AVE ALL THE TEST ADDRESSES BEEN CHECKED?		
013665		JP*TRANBOOT3	025351	34 5336
013666		LSHA*22		
		NO, GO CHECK THE NEXT ADDRESS. YES, COMBINE THE TEST RESULTS FOR		
013667		SLCL*EB	025352	5047 22
013670		STRAL*EB	025353	52 5626
013671	*		025354	44 5626
		THIS GROUP OF TEST ADDRESSES WITH THE COMBINED RESULTS OF THE PREVIOUS TEST ADDRESSES.		
013672		ENTAU*EB	025355	10 5626
013673		ENTAL*N000000	025356	12 5770
013674		IJP*TRANBOOT	025357	55 5314
013675	*			
013676	*			
013677	*			
013700	*	THE DI0BOOT SUBROUTINE IS USE TO TEST FOR OPEN DIODES ON BOOTSTRAP ADDRESS TRANSLATION CARDS.		
013701	*			
013702	DI0BOOT	0*0	025360	00 0000
013703		STRAL*BASEADR	025361	44 5620
013704	*			
		STORE THE BASE TEST ADDRESS FOR THIS REFERENCE OF DI0BOOT.		
013705		ENTAL*LOOPCOUNT	025362	12 5660
013706		STRAL*LOOP1	025363	44 5655
013707		ENTICR*1	025364	5072 01
013710		ENTB*BASEADR	025365	32 5620
013711		CL*EA1	025366	40 5624
		ENTER B1 WITH THE BASE ADDRESS. CLEAR THE ERROR FLAG WORK AREAS		
013712		CL*EA2	025367	40 5625
013713	DI0BOOT1	ENTAU*N000000	025370	10 5770
		INITIATE LOOP 2 TEMPORARY FLAG.		



SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
013714		ENTAL*LOOP1	025371	12 5655
013715		STRAL*LOOP2	025372	44 5656
013716	*			
013717		ENTSR*10	025373	5073 10
013720		STRB*0002	025374	42 0002
013721	*			
013722		ENTALB*0	025375	13 0000
013723	*			
013724		ENTSR*00	025376	5073 00
013725		STRAL*SCRATCH1	025377	44 5700
013726	*			
013727		ENTAL*EA1	025400	12 5624
013730		LSHAL*1	025401	5040 01
013731		STRAL*EA1	025402	44 5624
013732		ENTICR*2	025403	5072 02
013733	DI0000T2	ENTBKB*0	025404	37 0000
013734	*			
013735		ENTSR*10	025405	5073 10
013736		ENTALB*0	025406	13 0000
013737	*			
013740		ENTSR*00	025407	5073 00
013741		STRAL*SCRATCH2	025410	44 5701
013742	*			
013743		SLCL*SCRATCH1	025411	52 5700
013744	*			
013745	*			
013746	*			
013747	*			
013750		LSHAU*1	025412	5045 01
013751	*			
013752	*			

INITIATE THE LOOP 2 COUNT AT THE CURRENT LOOP1 VALUE.  
 SEE NOTE 1 IN APPENDIX A.  
 SET B2 TO THE TEST ADDRESS

CURRENTLY HELD IN B1.  
 READ UP THE CONTENTS OF THE LOOP 1 TEST ADDRESS.  
 SEE NOTE 2 IN APPENDIX A.  
 SAVE THE CONTENTS OF THE LOOP 1 TEST ADDRESS.  
 PREPARE THE LOOP1 ERROR FLAG FOR THE TEST RESULTS OF THE CURRENT LOOP1 TEST ADDRESS.  
 INCREMENT B2 TO THE NEXT TEST ADDRESS.  
 SEE NOTE 1 IN APPENDIX A.  
 READ UP THE CONTENTS OF THE LOOP1 TEST ADDRESS.  
 SEE NOTE 2 IN APPENDIX A.  
 SAVE THE CONTENTS OF THE LOOP 2 TEST ADDRESS.  
 CLEAR OUT ANY BIT THAT IS NOT SET IN BOTH THE LOOP 1 TEST ADDRESS AND THE LOOP 2 TEST ADDRESS (LOGICAL PRODUCT).  
 PREPARE THE LOOP 2 INTERMEDIATE ERROR FLAG FOR THE TEST RESULTS OF THE CURRENT LOOP 2 TEST ADDRESS.

TABLE 8-73 PROGRAM LISTING  
 NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

CHANGE 7 8-1419

	SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0200
8-1420	013753		CMAL*SCRATCH2	025413	02 5701		
	013754	*					
	013755	*					
	013756	*					
	013757		JPN0T*DI0B00T3	025414	63 5420		
CHANGE 7	013760	*					
	013761		LSHA*22	025415	5047 22		
	013762		SLSET*BIT00	025416	51 5711		
	013763		LSHA*22	025417	5047 22		
	013764	DI0B00T3	CMAL*SCRATCH1	025420	02 5700		
	013765	*					
	013766	*					
013767	*						
	013770		JPN0T*DI0B00T4	025421	63 5425		
	013771	*					
	013772		ENTAL*EA1	025422	12 5624		
	013773		SLSET*BIT00	025423	51 5711		
	013774		STRAL*EA1	025424	44 5624		
	013775	DI0B00T4	ISK*L00P2	025425	57 5656		
	013776	*					
	013777	*					
	014000	*					
	014001		JP*DI0B00T2	025426	34 5404		
	014002	*					
	014003		LSHA*22	025427	5047 22		
	014004		SLSET*EA2	025430	51 5625		
	014005		STRAL*EA2	025431	44 5625		
	014006		ENTICR*1	025432	5072 01		
	014007	DI0B00T5	ENT0KB*0	025433	37 0000		
	014010	*					
	014011		ISK*L00P1	025434	57 5655		

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
014012	*			
014013		JP*DI0B00T1	025435	34 5370
014014		ENTAL*EA1	025436	12 5624
014015		LSHAL*1	025437	5046 01
014016		SLSET*EA2	025440	51 5625
014017		SLCL*EB	025441	52 5626
014020		STRAL*EB	025442	44 5626
014021	*			
014022	*			
014023		ENTAU*EB	025443	10 5626
014024		ENTAL*N000000	025444	12 5770
014025		IJP*DI0B00T	025445	55 5360
014026	*			
014027	*	THE BOOTDR0P SUBROUTINE TESTS FOR SINGLE BITS BEING		
014030	*	DROPPED.		
014031	*			
014032	BOOTDR0P	0*0	025446	00 0000
014033		ENTALK*34	025447	70 0934
014034		STRAL*L00P1	025450	44 5655
014035		CL*TEMPORARY	025451	40 5703
014036		ENTALK*0534	025452	70 0534
014037		STRADR*BOOTDR0P2	025453	74 5455
014040	BOOTDR0P1	ENTSR*10	025454	5073 10
014041	BOOTDR0P2	ENTAL*0	025455	12 0000
014042	*			
014043		ENTSR*00	025456	5073 00
014044		SLSET*TEMPORARY	025457	51 5703
014045		STRAL*TEMPORARY	025460	44 5703
014046	*			
014047	*	THE LOGICAL OR OF ALL THE PREVIOUS TEST ADDRESSES.		

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 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1421

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
014050		ISK*BOOTDR0P2	025461	57 5455
014051	*	DECREMENT TO THE NEXT TEST ADDRESS.		
014052		ISK*LOOP1	025462	57 5655
014053	*	HAVE ALL THE TEST ADDRESSES BEEN USED?		
014054		JP*BOOTDR0P1	025463	34 5454
		NO, READ THE NEXT ADDRESS.		
014055		IJP*BOOTDR0P	025464	55 5446
014056	*	YES, EXIT FROM THE BOOTDR0P SUBROUTINE.		
014057	*			
014060	*	THE BOOTPICK SUBROUTINE TESTS FOR A SINGLE BIT BEING		
014061	*	PICKED UP.		
014062	*			
014063	BOOTPICK	0*0	025465	00 0000
014064		ENTALK*34	025466	70 0034
		SET UP THE LOOP COUNT FOR		
014065		STRAL*LOOP1	025467	44 5655
014066		ENTAL*N777777	025470	12 0037
014067		STRAL*TEMPORARY	025471	44 5703
014070		ENTALK*0534	025472	70 0534
014071		STRADR*BOOTPICK2	025473	74 5475
014072	BOOTPICK1	ENTSR*10	025474	0073 10
014073	BOOTPICK2	ENTAL*0	025475	12 0000
014074	*	READ UP THE CONTENTS OF THE FIRST ADDRESS.		
014075		ENTSR*00	025476	0073 00
014076		SLCL*TEMPORARY	025477	02 5703
014077		STRAL*TEMPORARY	025500	44 5703
014100	*	FORM THE LOGICAL PRODUCT OF		
014101	*	THE CURRENT BOOTSTRAP TEST		
014102	*	ADDRESS WITH THE LOGICAL		
014103	*	PRODUCT OF THE CONTENTS OF ALL		
014104	*	THE PREVIOUS BOOTSTRAP TEST		
		ADDRESSES.		
014105		ISK*BOOTPICK2	025501	57 5475
		DECREMENT TO THE NEXT TEST		
014106	*	ADDRESS.		
014106		ISK*LOOP1	025502	57 5655
		HAVE ALL THE TEST ADDRESSES BEEN		

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEGNU	LABEL	STATEMENT	PAGE	0203	ADDRESS	INSTRUCT
014107	*	USED?				
014110		JP*B00TPICK1			025503	34 5474
014111		IJP*B00TPICK			025504	55 5465
014112	*					
014113	XSTACK	0			025505	000000
014114		ENTAL*XSTACK			025506	12 5505
014115		ADDALK*7776			025507	71 7776
014116		ENTSR*10			025510	5073 10
014117		STRAL*8UTCFS			025511	44 5400
014120		ENTSR*00			025512	5073 00
014121		ENTAL*HNS			025513	12 5647
014122		CMAL*N000010			025514	02 5775
014123		JPMLEQ*XSTACK2			025515	65 5542
014124	*	17.				
014125		ENTAU*N007777			025516	10 6025
014126		ENTAL*N000577			025517	12 6015
014127		RJP*SELECT			025520	76 3666
014130		ENTAL*ES1			025521	12 5633
014131		ENTBK*7			025522	36 0007
014132	L4132	CMALB*MODFLT8K			025523	03 6123
014133		JPEQ*XSTACK1			025524	61 5527
014134	*	17.				
014135		BJP*L0K-2			025525	73 5523
014136		JP*XSTACK3			025526	34 5553
014137	*	YES. GO TO ERROR STOP AND DISPLAY THE ERROR FLAGS.				
014140	XSTACK1	ENTAU*N100000			025527	10 6030
014141		ENTAL*N000577			025530	12 6015
014142		RJP*SELECT			025531	76 3666
014143		ENTAL*ES1			025532	12 5633
014144		ENTAU*N000377			025533	10 6010
014145	*	MASKS OUT THE MEMORY SIZE PORTION OF THE ERROR FLAG.				

CHANGE 7 8-1423

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEGNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1424		CMSK*N000377	025534	06 0010
		JPEG*XSTACK4 NO. EXIT FROM THE XSTACK	025535	01 5557
	*	SUBROUTINE.		
		ENTAU*ES1 YES. DISPLAY THE ES1 AND ES2	025536	10 5633
		ENTAL*ES2 ERROR FLAGS AND STOP.	025537	12 5634
CHANGE 7		IRJP*MEDAMAT REFER TO AIMAT	025540	30 5659
		IJP*RECYCLE RECYCLE THE MEMORY TEST.	025541	55 5677
	XSTACK2	RJP*ERR00 PREVIOUS ERROR OCCUR	025542	76 5043
		ENTAU*N100000 DOES THE 000577 PATTERN APPEAR	025543	10 6030
		ENTAL*N000577 TO BE STORED IN NONEXISTENT	025544	12 0015
		RJP*SELECT ADDRESS IN BANK 1 (MEMORY	025545	76 3060
	*	GREATER THAN 32K?		
		ENTBK*7	025546	36 0007
		ENTAL*ES1	025547	12 5633
	L4156	CMALB*M0DFLT36K	025550	03 0132
		JPEG*XSTACK4 NO. EXIT FROM THE XSTACK	025551	01 5557
	*	SUBROUTINE.		
		BJP*L0K=2	025552	73 5350
	XSTACK3	ENTAU*ES1 YES. DISPLAY THE ES1 AND ES2	025553	10 5633
		ENTAL*ES2 ERROR FLAGS AND STOP.	025554	12 5634
		IRJP*MEDAMAT REFER TO AIMAT	025555	30 5650
		IJP*RECYCLE RECYCLE THE MEMORY TEST.	025556	55 5677
	XSTACK4	RJP*ERR00 PREVIOUS ERROR OCCUR	025557	76 5043
		IJP*XSTACK EXIT FROM XSTACK ROUTINE	025560	55 5505
	SAVEADR	0	025561	000000
		ENTICR*2 SET UP COUNT FOR SAVING FIVE	025562	5072 02
		ENTBK*5 TEST ADDRESSES.	025563	36 0005
		ENTICR*1	025564	5072 01
		ENTB*BASEADR FORM THE FIRST TEST ADDRESS TO	025565	32 5620
	*	BE SAVED.		
	SAVEADR1	ENTICR*1	025566	5072 01

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
014205		ENTSR*10	025567	5073 10
014206		ENTAUB*0	025570	11 0000
014207	*			
014210		ENTBKB*1000	025571	37 1000
014211	*			
014212		ENTSR*00	025572	5073 00
014213		ENTICR*2	025573	5072 02
014214		STRAUB*SAVEK	025574	47 5007
014215		BJP*SAVEADR1	025575	73 5500
014216	*			
014217		ENTICR*1	025576	5072 01
014220		IJP*SAVEADR	025577	55 5501
014221	*			
014222	RESTORE	0	025600	000000
014223		ENTICR*1	025601	5072 01
014224		ENTB*BASEADR	025602	32 5020
014225	*			
014226		ENTICR*2	025603	5072 02
014227		ENTBK*5	025604	36 0005
014230	RESTORE1	ENTSR*00	025605	5073 00
014231		ENTAUB*SAVEK	025606	11 5007
014232		ENTICR*1	025607	5072 01
014233		ENTSR*10	025610	5073 10
014234		STRAUB*0	025611	47 0000
014235	*			
014236		ENTBKB*1000	025612	37 1000
014237	*			
014240		ENTICR*2	025613	5072 02
014241	*			
014242		BJP*RESTORE1	025614	73 5005
014243		ENTICR*1	025615	5072 01

SEE NOTE 1 IN APPENDIX A.  
 READ UP ORIGINAL CONTENTS OF  
 TEST ADDRESS.  
 INCREMENT B1 TO NEXT ADDRESS TO  
 BE SAVED.

SEE NOTE 2 IN APPENDIX A.  
 SAVE TEST ADDRESS CONTENTS.  
 IF ANY ADDRESSES REMAIN TO BE  
 SAVED, SAVE THE NEXT ADDRESS.  
 ACTIVATE B1 BEFORE EXITING  
 EXIT FROM THE SAVEADR  
 SUBROUTINE.

FORM THE FIRST TEST ADDRESS TO  
 BE RESTORED.  
 SET UP COUNT FOR RESTORING FIVE  
 TEST ADDRESSES.  
 SEE NOTE 2 IN APPENDIX A.

SEE NOTE 1 IN APPENDIX A.  
 RESTORE THE ORIGINAL CONTENTS OF  
 THE TEST ADDRESS.  
 INCREMENT B1 TO NEXT ADDRESS TO  
 BE RESTORED.  
 HAVE ALL THE TEST ADDRESS BEEN  
 RESTORED?

NO, RESTORE THE NEXT ADDRESS.

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 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1425

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
014244		ENTSR*00	025616	5073 00
014245		IJP*RESTORE	025617	55 5600
014246	*			
014247	*			
014250	*	SPECIAL PURPOSE CONSTANTS AND WORK AREAS.		
014251	*			
014252	BASEADR	0	025620	000000
014253	BEGINNING	0	025621	000000
014254	CNTSIZE	0	025622	000000
014255	EA	0	025623	000000
014256	EA1	0	025624	000000
014257	EA2	0	025625	000000
014260	EB	0	025626	000000
014261	EC1	0	025627	000000
014262	EC2	0	025630	000000
014263	ENTA	ENTAL*0	025631	12 0000
014264	ES	0	025632	000000
014265	ES1	0	025633	000000
014266	ES2	0	025634	000000
014267	ESR10	ENTSR*10	025635	5073 10
014270	ESR12	ENTSR*12	025636	5073 12
014271	ESR14	ENTSR*14	025637	5073 14
014272	ESR16	ENTSR*16	025640	5073 16
014273	PRGSIZE1	033100	025641	033100
014274	PRGSIZE2	005000	025642	005000
014275	FAILADR	0	025643	000000
014276	FAILDIODE	0	025644	000000
014277	FAILPTTN	0	025645	000000
014300	FAILTEST	0	025646	000000
014301	HNS	000007	025647	000007
014302	MEDAMAT	0*AIMAT	025650	005000

SET UP FOR 32K (SEE NOTE 5 IN

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING



SEGN0	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0207
014303	HNSX	070000			025651	070000
014304	HOLDA	0*0	SET UP FOR 32K (SEE NOTE 5 IN HOLD SELECTED PARITY		025652	00 0000
014305	MEDRUNT	0*RUNENT			025653	005247
014306	INCREM	0			025654	000000
014307	LOOP1	0	LOOP COUNT STORAGE.		025655	000000
014310	LOOP2	0	LOOP COUNT STORAGE.		025656	000000
014311	LOOP3	0	LOOP COUNT STORAGE.		025657	000000
014312	LOOPCOUNT	0			025660	000000
014313	LOWEXEC	0*EXEC1	RECYCLE IN STACK 00.		025661	022007
014314	LOWLIMIT	040000			025662	040000
014315	PARITYMSK	005415			025663	005415
014316	PARITYEVN	505500	USED FOR PRESTORING SKPEVN,		025664	505500
014317	PARITYODD	505400	USED FOR PRESTORING SKPODD.		025665	505400
014320	*					
014321	PROG SIZE	0*3600	INCREASE PROGRAM SIZE PARAMETER		025666	00 3600
014322	*		PROGRAM (USED FOR MOVING THE			
014323	*		PROGRAM).			
014324	SAVEK	RESERV*10	STORAGE FOR SAVING THE CONTENTS		025667	000000
014325	*		OF TEST ADDRESSES.			
014326	RECYCLE	0			025677	000000
014327	SCRATCH1	0			025700	000000
014330	SCRATCH2	0			025701	000000
014331	STRA	STRAL*0			025702	44 0000
014332	TEMPORARY	0			025703	000000
014333	TERMINAL	0			025704	000000
014334	TESTPATTN	0			025705	000000
014335	UPEXEC	0*EXEC5+040000			025706	002140
014336	UPLIMIT	077777	SET UP FOR 32K (SEE NOTE 5 IN		025707	077777
014337	*		APPENDIX A.			
014340	VERIFY	0			025710	000000
014341	BIT00	000001			025711	000001

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 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1427

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CHANGE 7

SEGN0	LABEL	STATEMENT	ADDRESS	INSTRUCT
014342	BIT01	000002	025712	000002
014343	BIT02	000004	025713	000004
014344	BIT03	000010	025714	000010
014345	BIT04	000020	025715	000020
014346	BIT05	000040	025716	000040
014347	BIT06	000100	025717	000100
014350	BIT07	000200	025720	000200
014351	*			
014352	*	CODES USED FOR EVALUATING THE ES1 ERROR FLAG FOR THE		
014353	*	CONDITION ALL EXISTING BANK 1 STACKS (00 THROUGH 034		
014354	*	PICKING UP BITS.		
014355	*			
014356	IBNK1T20K	040010 FOR A 20K MEMORY	025721	040010
014357	IBNK1T24K	050014 FOR A 24K MEMORY	025722	050014
014360	IBNK1T28K	060016 FOR A 28K MEMORY	025723	060016
014361	IBNK1T32K	070017 FOR A 32K MEMORY	025724	070017
014362	*			
014363	*	CODES USED FOR EVALUATING THE ES1 ERROR FLAG FOR THE		
014364	*	CONDITION ALL EXISTING BANK 2 STACKS (10 THROUGH 134		
014365	*	PICKING UP BITS.		
014366	*			
014367	IBNK2T36K	10*0217 REFERENCED BY SBPICKE AND MUPICKE	025725	10 0217
014370		11*0317 ALL ZEROS WILL PASS MISSING STACKS		
			025726	11 0317
014371		12*0357	025727	12 0357
014372		13*0377	025730	13 0377
014373	*			
014374	*	CODES USED FOR EVALUATING THE ES1 ERROR FLAG FOR THE		
014375	*	CONDITION ALL EXISTING BANK 3 STACKS (14 THROUGH 174		
014376	*	PICKING UP BITS.		
014377	*			

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
014400	IBNK3T53K 140010	FOR A 53K MEMORY	025731	140010
014401	IBNK3T57K 150014	FOR A 57K MEMORY	025732	150014
014402	IBNK3T61K 160016	FOR A 61K MEMORY	025733	160016
014403	IBNK3T65K 170017	FOR A 65K MEMORY	025734	170017
014404	*			
014405	*	CODES USED FOR EVALUATING THE ES1 ERROR FLAG FOR THE		
014406	*	CONDITION ALL EXISTING BANK 2 AND BANK 3 STACKS		
014407	*	(10 THROUGH 17< PICK UP BITS.		
014410	*			
014411	IBK23T53K 140370	FOR A 53K MEMORY	025735	140370
014412	IBK23T57K 150374	FOR A 57K MEMORY	025736	150374
014413	IBK23T61K 160376	FOR A 61K MEMORY	025737	160376
014414	IBK23T65K 170377	FOR A 65K MEMORY.	025740	170377
014415	*			
014416	*	CODES USED FOR EVALUATING THE ES1 ERROR FLAGS FOR THE		
014417	*	CONDITION NO EXISTING STACKS 00 THROUGH 07 DROPPING BITS.		
014420	*			
014421	SN0FLT8K 010077	FOR AN 8K MEMORY	025741	010077
014422	SN0FLT12K 020037	FOR A 12K MEMORY	025742	020037
014423	SN0FLT16K 030017	FOR A 16K MEMORY	025743	030017
014424	SN0FLT20K 040007	FOR A 20K MEMORY	025744	040007
014425	SN0FLT24K 050003	FOR A 24K MEMORY	025745	050003
014426	SN0FLT28K 060001	FOR A 28K MEMORY	025746	060001
014427	SN0FLT32K 070000	FOR A 32K MEMORY	025747	070000
014430	*			
014431	*	CODES USED FOR EVALUATING THE ES1 ERROR FLAG FOR THE		
014432	*	CONDITION NO EXISTING STACKS 10 THROUGH 17 DROPPING BITS.		
014433	*			
014434	SN0FLT36K 100177	FOR A 36K MEMORY	025750	100177
014435	SN0FLT40K 110077	FOR A 40K MEMORY	025751	110077
014436	SN0FLT45K 120037	FOR A 45K MEMORY	025752	120037

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1429

ADDRESS INSTRUCT

SEONO	LABEL	STATEMENT	ADDRESS	INSTRUCT
014437	SN0FLT59K	130017 FOR A 49K MEMORY	025753	130017
014440	SN0FLT53K	140007 FOR A 53K MEMORY	025754	140007
014441	SN0FLT57K	150003 FOR A 57K MEMORY	025755	150003
014442	SN0FLT61K	160001 FOR A 61K MEMORY	025756	160001
014443	SN0FLT65K	170000 FOR A 65K MEMORY	025757	170000
014444	*			
014445	*	CODES USED FOR EVALUATING THE ESI ERROR FLAG FOR THE		
014446	*	CONDITION ALL BANK 0 STACKS (00 THROUGH 03< DROPPING BITS,		
014447	*	BUT NO EXISTING STACKS (04 THROUGH 07< IN BANK 1 DROPPING		
014448	*	BITS.		
014449	*			
014450	*			
014451	*			
014452	0BNK0T20K	040367 FOR A 20K MEMORY	025760	040367
014453	0BNK0T24K	050363 FOR A 24K MEMORY	025761	050363
014454	0BNK0T28K	060361 FOR A 28K MEMORY	025762	060361
014455	0BNK0T32K	070360 FOR A 32K MEMORY	025763	070360
014456	*			
014457	*	CODES USED FOR EVALUATING THE ESI ERROR FLAG FOR THE		
014458	*	CONDITION ALL BANK 2 STACKS (10 THROUGH 13< DROPPING BITS,		
014459	*	BUT NO EXISTING STACKS (14 THROUGH 17< IN BANK 3 DROPPING		
014460	*	BITS.		
014461	*			
014462	*			
014463	*			
014464	0BNK2T53K	140367 FOR A 53K MEMORY	025764	140367
014465	0BNK2T57K	150363 FOR A 57K MEMORY	025765	150363
014466	0BNK2T61K	160361 FOR A 61K MEMORY	025766	160361
014467	0BNK2T65K	170360 FOR A 65K MEMORY	025767	170360
014470	*			
014471	*	GENERAL PURPOSE CONSTANTS.		
014472	*			
014473	N000000	000000	025770	000000
014474	N000001	000001	025771	000001
014475	N000002	000002	025772	000002

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	PAGE ADDRESS	0211 INSTRUCT
014476	N000004	000004	025773	000004
014477	N000007	000007	025774	000007
014500	N000010	000010	025775	000010
014501	N000014	000014	025776	000014
014502	N000017	000017	025777	000017
014503	N000021	000021	026000	000021
014504	N000035	000035	026001	000035
014505	N000077	000077	026002	000077
014506	N000100	000100	026003	000100
014507	N000177	000177	026004	000177
014510	N000300	000300	026005	000300
014511	N000314	000314	026006	000314
014512	N000360	000360	026007	000360
014513	N000377	000377	026010	000377
014514	N000400	000400	026011	000400
014515	N000477	000477	026012	000477
014516	N000534	000534	026013	000534
014517	N000540	000540	026014	000540
014520	N000577	000577	026015	000577
014521	N000600	000600	026016	000600
014522	N000677	000677	026017	000677
014523	N000700	000700	026020	000700
014524	N001000	001000	026021	001000
014525	N000000	000000	026022	000000
014526	N007000	007000	026023	007000
014527	N007101	007330	026024	007330
014530	N007777	007777	026025	007777
014531	N010000	010000	026026	010000
014532	N040000	040000	026027	040000
014533	N100000	100000	026030	100000
014534	N100101	100101	026031	100101

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1431

8-1432

CHANGE 7

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
014535	N140000	140000	026032	140000
014536	N170000	170000	026033	170000
014537	N177777	177777	026034	177777
014540	N400000	400000	026035	400000
014541	N770000	770000	026036	770000
014542	N777777	777777	026037	777777
014543	SN0FLT0	01*0000	026040	01 0000
014544		02*0020	026041	02 0020
014545		03*0000	026042	03 0000
014546	SN0FLT20	04*0007	026043	04 0007
014547		05*0003	026044	05 0003
014550		06*0001	026045	06 0001
014551		07*0000	026046	07 0000
014552	SN0FLT36	10*0100	026047	10 0100
014553		11*0000	026050	11 0000
014554		12*0020	026051	12 0020
014555		13*0000	026052	13 0000
014556	SN0FLT53	14*0007	026053	14 0007
014557		15*0003	026054	15 0003
014560		16*0001	026055	16 0001
014561		17*0000	026056	17 0000
014562	FIXMDRPE	CMALB*SN0FLT36		
		AN X OR Y GROUP, OR LINE, SELECTOR	026057	03 0047
014563		JPEQ*TRANSFORM	026060	01 4216
014564		BJP*L0K-2	026061	73 0057
014565		ENTAL*N777777	026062	12 0037
014566		ENTAU*N101010	026063	10 0100
014567		RJP*SELECT	026064	76 0066
014570		ENTAL*ES!	026065	12 5033
014571		ENTBK*3	026066	36 0003
014572		CMALB*SN0FLT36	026067	03 0047

SN0FLT TABLE FOR CASES WHEN ALL ONES PATTERN IS USED

TABLE 8-73 PROGRAM LISTING

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

SEGN0	LABEL	STATEMENT	ADDRESS	PAGE	INSTRUCT	0213
014573		JPEG*N0DR0P	026070	01	3663	
014574		BJP*L0K-2	026071	73	0007	
014575		JP*L2361+3	026072	34	3578	
014576	FIXMDRPF	ENTBK+3	026073	36	0003	
014577		CMALB+8BNK2T53K	026074	03	0764	
014600		JPEG*MUDR0PF3	026075	01	3654	
014601		BJP*L0K-2	026076	73	0074	
014602		JP*L2405+3	026077	34	3621	
014603	N101010	10*1010	026100	10	1010	
014604	FIXMPCKC	CMCK*N000017	026101	06	0777	
014605		JPEG*MUBIT1	026102	01	2770	
014606		JP*L1502+1	026103	34	2714	
014607	FIXPICK	0*0	026104	00	0000	
014610		ENTAL*E81	026105	12	0633	
014611		ENTBK+7				
		G	026106	36	0007	
014612		CMALB*PEBCK32K	026107	03	0113	
014613		JPEG*N0PICK	026110	01	3012	
014614		BJP*L0K-2	026111	73	0107	
014615		IJP*FIXPICK	026112	00	0104	
014616	PEBCK32K	10*0017				
			026113	10	0017	
014617		11*0017	026114	11	0017	
014620		12*0017	026115	12	0017	
014621		13*0017	026116	13	0017	
014622		14*0000	026117	14	0000	
014623		15*0000	026120	15	0000	
014624		16*0000	026121	16	0000	
014625		17*0000	026122	17	0000	
014626	MODFLT8K	01*0077				
			026123	01	0077	

RETURN  
INSTRUCTION ENTBK+3 OMITTED FROM  
ORIGINAL PROGRAM

RETURN  
CONSTANT  
ONE INSTRUCTION IN MUPICKC NOT  
ASSEMBLED  
RETURN  
REFERENCED BY MUPICKE, MUPICKF,

SBPICKE, AND SBPICKF TO CHECK FOR  
NO EXISTING STACKS 10 TO 17 FAILIN  
REFERENCED BY FIXPICK, - PARTIALLY

EXISTENT BANK WILL READ ZERO FOR  
MISSING STACKS

REFERENCED BY XSTACK TO CHECK FOR

NAVSEA OP 3514 (PMS/SMS). VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1433

SEQNO	LABEL	STATEMENT	ADDRESS	PAGE	INSTRUCT	0214
014627		02*0037 ALL EXISTING STACKS FAILING	020124	02	0037	
014630		03*0017	020125	03	0017	
014631		04*0007	020126	04	0007	
014632		05*0003	020127	05	0003	
014633		06*0001	020130	06	0001	
014634		07*0000	020131	07	0000	
014635	MODFLT36K	10*0177	020132	10	0177	
014636		11*0077	020133	11	0077	
014637		12*0037	020134	12	0037	
014640		13*0017	020135	13	0017	
014641		14*0007	020136	14	0007	
014642		15*0003	020137	15	0003	
014643		16*0001	020140	16	0001	
014644		17*0000	020141	17	0000	
014645	MEMPARA	0*0	020142	00	0000	
014646	MEMPARB	0*12	020143	00	0012	
014647	JPBK1RST	ENTSR*10 STORE JUMP TO BANK 1 RESTART	020144	0073	10	
014650		ENTAL*JPINS TO PREVENT EXECUTION OF PROGRAM	020145	12	0712	
014651		STRAL*STORESR+1 IN BANK 0 IF MEMORY FAILURE HAS	020146	44	0707	
014652		ENTSR*0 OCCURRED IN BANK 0	020147	0073	00	
014653		IJP*UP TRANSFER CONTROL TO THE PROGRAM	020150	05	0050	
014654	*	NOW STORED IN BANK 1				
014655	STJPINS	STRAL*RECYCLE AFTER ERROR ISOLATION	020151	44	0077	
014656		ENTAL*BK1JPRUNT BANK 1 RUNENT ADDRESS	020152	12	0100	
014657		STRAL*MEDIPTCH	020153	44	7400	
014660		ENTAL*BK1SUBRUT BANK 1 SUBROUTINE ADDRESS	020154	12	0157	
014661		ENTSR*14 REFERENCE AIMAT	020155	0073	14	
014662		JP*CONTINUES RETURN	020156	34	0100	
014663	BK1SUBRUT	002134 BANK 1 SUBROUTINE	020157		002134	
014664	BK1JPRUNT	045247 BANK 1 RUNENT	020160		045247	
014665	BK0JPRUNT	005247 BANK 0 RUNENT	020161		005247	

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING



SEQNO	LABEL	STATEMENT	PAGE	0215
SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
014666	RESJPINS	ENTAL*BK0JPRUNT	BANK 0 RUNENT ADDRESS	026162 12 6161
014667		STRAL*MEDIPTCH		026163 44 7400
014670		JP*EXEC1	THE PROGRAM DETECTION SECTION	026164 34 2007
014671	*		HAS RUN ONCE WITHOUT A FAILURE	
014672	*		BEING DETECTED (MEMORY VERIFIED)	
014673	*		GO TO THE RECYCLE STOP	
014674	*			
014675	*	APPENDIX A		
014676	*			
014677	*	NOTE 1		
014700	*			
014701	*	SINCE THE SR REGISTER IS ACTIVATED TO BANK 0, ALL		
014702	*	MEMORY REFERENCES ARE NOW INDEPENDENT OF THE STACK THE		
014703	*	PROGRAM IS BEING RUN IN. FOR A B MODIFIED INSTRUCTION		
014704	*	OF THE FORM XX0000 (Y EQUAL TO ZERO, THE ADDRESS		
014705	*	REFERENCED IS ENTIRELY SPECIFIED BY THE ACTIVE B		
014706	*	REGISTER.		
014707	*			
014710	*	NOTE 2		
014711	*			
014712	*	SINCE THE SR REGISTER IS DEACTIVATED, MEMORY		
014713	*	REFERENCES ARE NOW DEPENDENT ON THE STACK THE PROGRAM		
014714	*	IS BEING RUN IN. PROGRAM CONSTANTS CAN NOW BE CALLED		
014715	*	UP.		
014716	*			
014717	*	NOTE 3		
014720	*			
014721	*	OBSERVE THE AU REGISTER, AND REPLACE THE CARD(S		
014722	*	CORRESPONDING TO THE BIT(S SET.		
014723	*			
014724	*	BIT REPLACE CARD		

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7

8-1435

8-1436

CHANGE 7

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
014725	*			
014726	*	00 8J20A (00BG07, P=132<, CARD TYPE 3771,		
014727	*	01 8J20A (00BG06, P=132<, CARD TYPE 3771,		
014730	*	02 8J21A (00BG05, P=132<, CARD TYPE 3771,		
014731	*	03 8J21A (00BG04, P=132<, CARD TYPE 3771.		
014732	*	04 8J22A (00BG03, P=132<, CARD TYPE 3771,		
014733	*	05 8J22A (00BG02, P=132<, CARD TYPE 3771,		
014734	*	06 8J23A (00BG01, P=132<, CARD TYPE 3771,		
014735	*	07 8J23A (00BG00, P=132<, CARD TYPE 3771.		
014736	*			
014737	*	NOTE 4		
014740	*			
014741	*	OBSERVE THE AU REGISTER, AND REPLACE THE CARD(S<		
014742	*	CORRESPONDING TO THE BIT(S< SET.		
014743	*			
014744	*	BIT REPLACE CARD		
014745	*			
014746	*	00 8J20C (10BD03, P=132<, CARD TYPE 3771,		
014747	*	01 8J20C (10BD02, P=132<, CARD TYPE 3771,		
014750	*	02 8J21C (10BD01, P=132<, CARD TYPE 3771,		
014751	*	03 8J21C (10BD00, P=132<, CARD TYPE 3771.		
014752	*			
014753	*	NOTE 5		
014754	*			
014755	*	IF THE MAIN MEMORY SIZE IS NOT 32K, THEN THE PARAMETER		
014756	*	SUBROUTINE WILL CALCULATE NEW VALUES FROM PARAMETERS		
014757	*	SPECIFIED BY THE OPERATOR AT THE PARAMETER STOP.		
014760	*			
014761	*			
014762	MEDIPTCH	005247	IRJP ADDRESS FOR RUNENT	027400 005247

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEGNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
014763		PR0G*NSWSES*PGM0249 NSWSES OCT. 75		
014764	BEGIN	SIL*00	007700	5034 00
014765		SXL L0K0 EXT INT	007701	5036 00
014766		IJP*L0K+1	007702	55 7703
014767		0*I0TA	007703	010000
014770	EISIL	0*EISILM INT RTN JP REF	007704	016560
014771		JPAUZ*L0K+2	007705	60 7707
014772	FALADR	JPAUZ*L0K+1	007706	60 7707
014773		ST0P*40 ERR ST0P	007707	5056 40
014774	ZR0L	0*ZR0M0N	007710	012344
014775	CMPL	0*CMPINT	007711	013114
014776	FAULTA	0*FAULT+1	007712	016005
014777	M0NIN0	0*M0NINX REF ADDR	007713	014727
015000	IRJPFL	0*IRJPFM	007714	017075
015001	EFSIL	0*EFSILM	007715	016564
015002	AUSIL	0*AUSILM	007716	016570
015003	AURIL	0*AURILM	007717	016770
015004	EIRH	0*EIRT1	007720	015776
015005	EFMH	0*EFM0N	007721	016411
015006	AUTMH	0*AUTM0N	007722	016425
015007	INM0H	0*INM0N	007723	016441
015010	CHNPRL	0*CHNPRM	007724	012644
015011	CHNPRL	0*CHNPSM	007725	012652
015012	FPRIL	0*FPRIM	007726	013017
015013	FPRIL1	0*FPRIM1	007727	013021
015014	WTINTL	0*WTEINT	007730	013056
015015		RESERV*17	007731	000000
015016		RESERV*01	007750	000000

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1437

8-1438

CHANGE 7

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
015017	HIEISP	0+HIEIS	007751	013600
015020	S0DRP	0+S0DRP	007752	013401
015021	RSMF0K	0+RSMFK0 REF	007753	021014
015022	FLRMSF	0+FLRSMF REF	007754	021010
015023	RTCMB	0+RTCMA REF	007755	021065
015024	MWAID	0+MWAED	007756	014355
015025	RSMFAB	0+RSMFB REF	007757	020424
015026	SPI13C	0+SPI13D REF	007760	020422
015027	SPI12A	0+SPI12B REF	007761	020420
015030	RTC0M	0+RTC0K REF	007762	020416
015031	RTC0T	0+RTC0T REF	007763	020414
015032	RTC0VK	0+RTC0VF REF	007764	020412
015033	EI0KHA	0+EI0KH REF	007765	013400
015034	EI0KLA	0+EI0KL REF	007766	013413
015035	JPEFL	0+JPEFM	007767	012251
015036	PR0KAA	0+PR0KA REF	007770	015771
015037	PRBADD	0+PRBAD REF	007771	015763
015040	RSMFBA	0+RSMFA REF	007772	021002
015041	RTCCC	0+ADR REF	007773	000000
			007774	55 7775

--TRANSFER TABLE--

007775	010000
007776	000000

---

015042	I0TA	SIL L0K0 INT	010000	5034	00
015043		ENTSR*0 INITIALIZE STACK REF	010001	5073	00
015044		ENTAL*AFULT SET ADDR 0-1 TO JP	010002	12	0004
015045		ENTSR*10 REF BANK 0	010003	5073	10

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEGNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
015046		STRAL*0 STR RJP*AFALT+1 AT ADDR 0	010004	44 0000
015047		ENTSR*0 REF CURR BANK	010005	5073 00
015050		ENTAU*CHA4 CL AU	010006	10 7163
015051		ENTAL*ALPRAM	010007	12 7261
015052		ENTAU*AUPRAM	010010	10 7260
015053		REMARK		
015054		REMARK		
015055		REMARK* AU I0000HIGH AL C00000000		
015056		REMARK* I0000LOCH B00000SIZE		
015057		REMARK		
015060		REMARK*AU17#1 IF FAST INTERFACE ON HI-JPRD CHAN		
015061		REMARK* #0 SLOW		
015062		REMARK*AU09-12#HIGHER JUMPERED CHANNEL NO.		
015063		REMARK*AU08#1 IF FAST INTERFACE ON LO-JPRD CHAN		
015064		REMARK* #0 SLOW		
015065		REMARK*AU00-03#LOWER JUMPERED CHANNEL NO.		
015066		REMARK		
015067		REMARK*NOTE-JUMPER#CABLE INPUT TO OUTPUT ON CHAN		
015070		REMARK		
015071		REMARK*AL17#1 IF NO COM/ONE OF 1218 MODES		
015072		REMARK* #0 IF COM/1219 MODE		
015073		REMARK*AL08#1 IF STANDARD 1218 BUFFER MODE		
015074		REMARK* #0 IF NTDS COMPATABLE BUFF MODE		
015075		REMARK*AL00-03#17 FOR 16 I/O CHANNEL COMPUTER		
015076		REMARK* 16 FOR 12		
015077		REMARK* 07 FOR 8		
015100		REMARK* 06 FOR 4		
015101		REMARK		
015102		REMARK		
015103		NO-0P	010011	5047 00
015104		SKP*40 UNCOND SKP	010012	5050 40

CHANGE 7 8-1439

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1440	PSTOP	JP*START JP IF SKP KEY 0 SET	010013	34 0021
		STOP*10 CHECK PARAMETERS	010014	5056 10
		REMARK* SHOWN IMMEDIATELY ABOVE.		
		STRAU*AUPRAM SAVE PARAMETERS	010015	46 7260
		STRAL*ALPRAM	010016	44 7261
CHANGE 7	START	RJP*UPRAM UNPACK AND STR PARAMETERS	010017	76 6573
		RJP*CHACHA TO CHAN CHANGER	010020	76 6667
		SIL LOK0 INT	010021	5034 00
		SXL	010022	5036 00
		RJP*CHSET SET CHAN TBL LBL AND 0	010023	76 6205
		REMARK* I01 CK CONSTANT IN, OUT, OR EF ACTIVE.		
		REMARK* I02 CK RTC FALSE RUN, CK FALSE IDR, ODR,		
		REMARK* OR EFR AND ABILITY TO CL ACT FF.		
		REMARK*I03 CK SRSM AND SKPNR FUNCTIONS		
		REMARK* I0450 CK FALSE TERM OF A L0 CHAN WHEN HI		
		REMARK* ONLY IS TERM - ALSO CK TERM OF HI CHAN		
		REMARK* WHEN LOWER IS TERM.		
REMARK* I0700 CK FALSE ACTIVATION OF L0 CHAN WHEN				
REMARK* HI CHAN ONLY IS ACTVTD - ALSO CK ACT				
REMARK* OF L0 WHEN HI IS ACT.				
REMARK*I010 CK EF,OUT,AND IN ACTIVE FUNC. ENABLES				
REMARK* I011 CK PROPER STR OF BCW(IN,OUT,EF).				
REMARK*I012 CK EXFOV,REQUEST PROCCESING, RIL FAILURE,				
REMARK* PREMATURE AND NORM BUF TERM, B#0 CKT,				
REMARK*I013 CK OUTOV,FALSE IDR, FALSE MON ON TERM.				
REMARK* I014 CK BKWD BUF, CDM.				
REMARK* I016 CK HNRNG OUT AND EF MON.				
REMARK* RLJPEI CK RIL AND IJPEI REL OF LOK0				
REMARK* I015 CK SIL ABILITY TO LOK0 EF, OUT MON.				

SEGN0	LABEL	STATEMENT	ADDRESS	INSTRUCT
015142		REMARK*I017 CK CHAN PRIOR,7-6,7-5,----3-0,2-0.		
015143		REMARK* I018 CK HNRNG OF HI PRIOR FUNC WHEN TWO		
015144		REMARK* FUNC WAITING TO BE HNRD ON SAME CHAN.		
015145		REMARK* WAITCK CK WTFI FUNC.		
015146		REMARK*CMPLK0 CK COMPARE + FORCE INT L0K0		
015147		REMARK*EXPEIC-TEST EXP AND EI CONTROL		
015150		REMARK*INOUTC- TEST INPUT AND OUTPUT CONTROL		
015151		REMARK*CSDATA-TESTS DATA TRANSFERRING		
015152		REMARK*MONTIN-TEST INPUT MON INT		
015153		REMARK*ATIME-TEST EF/00 AND IN ACK TIMING(SLOW*		
015154		REMARK*CDMIN-TEST INPUT CDM		
015155		REMARK*FUNPGA-TEST FUNCTION PRIORITY CRKT		
015156		RJP*I01	010024	76 0071
015157		RJP*I02	010025	76 0137
015160		RJP*I03	010026	76 0320
015161		RJP*I0456 RUN I04,5,6	010027	76 0365
015162		RJP*I0789 RUN I07,8,9	010030	76 0500
015163		RJP*I010	010031	76 0607
015164		RJP*I011	010032	76 0650
015165		RJP*I012	010033	76 1246
015166		RJP*I013	010034	76 1525
015167		RJP*I014	010035	76 1672
015170		RJP*I016	010036	76 2135
015171		RJP*RLJPEI	010037	76 2253
015172		RJP*I015	010040	76 2411
015173		RJP*I017 CK CHAN PRIORITY	010041	76 2526
015174		RJP*I018 CK FUNC PRIOR	010042	76 2720
015175		RJP*WAITCK CK FUNC OF WTFI	010043	76 3032
015176		RJP*CMPLK0 CK SIL COMPARE	010044	76 3060
015177		SKP*10 SET SKIP KEY 3 TO RUN NON-JPRD	010045	5050 10
015200		REMARK*TESTS ONLY.		

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NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
015201		JP*L0K*6	010040	34 0054
015202		STOP*04 STOP K2 SET NORM STOP NON=JMPRD	010047	5056 04
015203	REES	RJP*HONINT CLEAR ALL MONITORS	010050	76 7007
015204		RJP*TERMAL TERM ALL ACT	010051	76 6000
015205		RJP*SRSMAL SET RESUMES	010052	76 7030
015206		JP*REES1 RECYCLE	010053	34 0063
015207		RJP*EXPEIC TEST EXP/EI CONTROL	010054	76 3120
015210		RJP*INOUTC	010055	76 3702
015211		RJP*CSDATA TEST C REG AND INPUT/STR SEL	010056	76 4300
015212		RJP*MONIN	010057	76 4625
015213		RJP*ATIME	010060	76 4730
015214		RJP*CDMIN	010061	76 5221
015215		RJP*FUNPGA	010062	76 5337
015216	REES1	STOP*04 SET STP KEY 2 TO END TEST	010063	5056 04
015217		SKP*04 SET SKP KEY 2 TO RUN SPECIAL	010064	5050 04
015220		IRJP*I0TAMAT REF AIMAT	010065	30 7265
015221	ENDTST	N0=0P LAST ADDRESS OF TEST REF FOR AIMAT	010066	5047 00
015222		JP*I0TA RECYCLE THE I/O TEST	010067	34 0000
015223		0*SPECIA	010070	020000
015224	I01	0*0 ENTRY	010071	00 0000
015225		ENTAL*I01 STR ADDRS TO RECYCLE	010072	12 0071
015226		ADDALK*7776 SUBTRACT 1 FROM ENTRY	010073	71 7776
015227		ENTSR*10 REF TO STK 0	010074	5073 10
015230		STRAL*8UTCFS STR IN AIMAT	010075	44 5400
015231		ENTSR*00 REF TO CURRENT STK	010076	5073 00
015232		ENTALK*I01	010077	70 0071
015233		STRAL*IFALUT	010100	44 7237
015234		CL*AUERDS ERR STR L0K	010101	40 7123
015235		CL*ALERDS ERR STR L0K	010102	40 7124
015236		CL*FAULTI	010103	40 7236
015237		RJP*JMPRD FIND NON=JMPRD CHAN	010104	76 6321

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TABLE 8-73 PROGRAM LISTING  
 NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A



SEGNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0223
015240	TBLI01	ENTALB*CHTBL ENT CHAN NO	010105	13 0000		
015241		ENTAU*UI2MSK 777700	010106	10 7111		
015242		SLSU*SKIICK MOD CHAN	010107	04 0110		
015243		STRAL*SKIICK RESTR TO RTN	010110	44 0110		
015244		SLSU*SK0ICK MOD CHAN	010111	04 0117		
015245		STRAL*SK0ICK RESTR TO RTN	010112	44 0117		
015246		SLSU*SKFICK MOD CHAN	010113	04 0121		
015247		STRAL*SKFICK RESTR TO RTN	010114	44 0121		
015250	SKIICK	SKPIIN*XX IN INACT?	010115	0021 00		
015251		RJP*RCORDI ACTIVE = JP AND SAVE ERR	010116	70 0107		
015252	SK0ICK	SKP0IN*XX OUT INACT?	010117	0022 00		
015253		RJP*RCORD0 ACT = JP AND SAVE ERR	010120	70 0100		
015254	SKFICK	SKPFIN*XX EF INACT?	010121	0023 00		
015255		RJP*RCORDF ACT = JP AND NOTE ERR	010122	70 0170		
015256		BJP*TBLI01 CK ALL CHAN	010123	73 0100		
015257		ENTAU*AUERDS DISPLAY ERR	010124	10 7120		
015260		ENTAL*ALERDS DISPLAY ERR	010125	12 7124		
015261		JPAUNZ*L0K+5 JP IF ERR	010126	02 0130		
015262		JPALNZ*L0K+4 JP IF ERR	010127	03 0130		
015263		ENTAU*FAULTI	010130	10 7230		
015264		JPAUZ*L0K+4 NO ERR JP	010131	00 0130		
015265		ENTAU*AUERDS RESET ERR DISPLAY IN AU	010132	10 7120		
015266		RJP*DISP0C DIS ON C	010133	70 0024		
015267		IRJP*I0TAMAT REF TO AIMAT	010134	30 7200		
015270		IJP*I01 EXIT	010135	55 0071		
015271		RESERV*1	010136	000000		
015272	I02	0*0 ENTRY	010137	00 0000		
015273		ENTALK*I02	010140	70 0137		
015274		STRAL*IFAUULT	010141	44 7237		
015275		STRSR*KEEP SAVE SR	010142	70 0100		
015276		ENTSR*10 REF BANK 0	010143	0073 10		

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NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEONO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1444		CL*015 ZERO RTC INCR REG	010144	40 0015
		ENTALK*0450 450 EQU DLY COUNT	010145	70 0450
		ADDALK*7776	010146	71 7776
		JPALNZ*L0K-1 DELAY FOR 1/1024 SEC	010147	63 0146
		ENTAL*015 DID RTC INCR?	010150	12 0015
		JPALZ*KEEP-1 NO JP PUT	010151	61 0157
		ENTALK*0450 CK FOR 2ND TIME INCR	010152	70 0450
		ADDALK*7776	010153	71 7776
		JPALNZ*L0K-1	010154	63 0153
		ENTAL*015 DISPLAY RTC	010155	12 0015
		IRJP*I0TAMAT REF TO AIMAT	010156	30 7268
		N0=0P	010157	5047 00
	KEEP	ENTSR*0 REACT SR CURRENT BANK	010160	5073 00
		RJP*STCHAR JP TO SET ALL CW	010161	70 0165
		CL*AUERDS ERR STR L0K	010162	40 7123
		CL*ALERDS D0	010163	40 7124
		CL*FAULTI	010164	40 7236
		RJP*REICR RESET ICR PER I0SIZE	010165	70 0400
	TBLI02	ENTALB*CHTBL ENT CHAN N0	010166	13 0000
		ENTAU*U12MSK 777700	010167	10 7111
		SLSU*FFID M0D CHAN	010170	04 0215
		STRAL*FFID AND RESTR	010171	44 0215
		SLSU*FFID+4 M0D CHAN	010172	04 0221
		STRAL*FFID+4 AND RESTR	010173	44 0221
		STRAL*FF0D-2 D0	010174	44 0225
		SLSU*FF0D-3 M0D CHAN	010175	04 0224
		STRAL*FF0D-3 AND RESTR	010176	44 0224
		SLSU*FF0D M0D CHAN	010177	04 0227
		STRAL*FF0D AND RESTR	010200	44 0227
		SLSU*FF0D+4 M0D CHAN	010201	04 0233
		STRAL*FF0D+4 AND RESTR	010202	44 0233

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SEONO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0225
015336		STRAL+FFEF-2 D0	010203	44 0237		
015337		SLSU+FFEF-3 MOD CHAN	010204	04 0238		
015340		STRAL+FFEF-3 AND RESTR	010205	44 0238		
015341		SLSU+FFEF MOD CHAN	010206	04 0241		
015342		STRAL+FFEF AND RESTR	010207	44 0241		
015343		SLSU+FFEF+4 MOD CHAN	010210	04 0245		
015344		STRAL+FFEF+4 AND RESTR	010211	44 0245		
015345		STRAL+FFEF+1 D0	010212	44 0251		
015346		SLSU+FFEF+1 MOD CHAN	010213	04 0250		
015347		STRAL+FFEF+1 AND RESTR	010214	44 0250		
015350	FFID	SIN+XX SET ACT CHAN K	010215	5001 00		
015351		ENTAU+CHAN+16 040000	010216	10 7205		
015352		RJP+DELAY ALLOW TIME FOR FALSE IDR+IDA	010217	76 0314		
015353		N0=0P	010220	5047 00		
015354		SKPIIN+XX SKP AND NOTE ERR IF INACT	010221	5021 00		
015355		JP+L0K+2 CONT IF ACT	010222	54 0224		
015356		RJP+RCORDI NOTE ERR	010223	76 0107		
015357		INSTP+XX TERM IN	010224	5015 00		
015360		SKPIIN+XX SKP IF INACT AND CONTINUE	010225	5021 00		
015361		RJP+RCORDI NOTE ERR	010226	76 0107		
015362	FF0D	S0UT+XX NOTES SIMILAR TO FFID ABOVE	010227	5002 00		
015363		ENTAU+CHAN+16 040000	010230	10 7205		
015364		RJP+DELAY DELAY FOR FALSE IDR+IDA	010231	76 0314		
015365		N0=0P	010232	5047 00		
015366		SKP0IN+XX	010233	5022 00		
015367		JP+L0K+2	010234	54 0238		
015370		RJP+RCORD0	010235	76 0100		
015371		S0UTSTP+XX	010236	5016 00		
015372		SKP0IN+XX	010237	5022 00		
015373		RJP+RCORD0	010240	76 0100		
015374	FFEF	S0EXF+XX	010241	5003 00		

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TABLE 8-73 PROGRAM LISTING  
NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

SEONO LABEL STATEMENT ADDRESS INSTRUCT

8-1446

015375 ENTAU\*CHAN+16 040000 010242 10 7205  
 015376 RJP\*DELAY DELAY FOR FALSE IDR+IDA 010243 76 0314  
 015377 NO=OP 010244 5047 00  
 015400 SKPPIN\*XX 010245 5023 00  
 015401 JP\*L0K+2 010246 34 0250

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015402 RJP\*RCORDP 010247 76 6175  
 015403 FFEPA EXPSTP\*XX 010250 5017 00  
 015404 SKPPIN\*XX 010251 5023 00  
 015405 RJP\*RCORDP 010252 76 6175  
 015406 BJP\*TBLI02 CK ALL CHAN 010253 73 0166  
 015407 RJP\*STALAC SET ID, 0D, AND EF ACT 010254 76 0134  
 015410 ENTAU\*AUERDS D0 010255 10 7123  
 015411 ENTAL\*ALERDS D0 010256 12 7124

015412 JPAUNZ\*L0K+5 JP IF ERR 010257 62 0264  
 015413 JPALNZ\*L0K+4 D0 010260 63 0264  
 015414 ENTAU\*FAULTI 010261 10 7236  
 015415 JPAUZ\*L0K+4 NO ERR JP 010262 60 0266  
 015416 ENTAU\*AUERDS REDISPLAY ERR 010263 10 7123  
 015417 RJP\*DISPOC DISPLAY ON C 010264 76 0024  
 015420 IRJP\*IGTAMAT REF TO AIMAT 010265 30 7265  
 015421 RJP\*TERMAL 010266 76 6060

015422 JP\*CONTINUE1 010267 34 7275  
 015423 RESERV\*1 010270 000000  
 015424 REGACK 0\*0 ENTRY 010271 00 0000  
 015425 ENTAL\*REGACK STR ADDRS TO RECYCLE 010272 12 0271  
 015426 ADDALK\*7773 SUBTRACT 4 FROM ENTRY 010273 71 7773  
 015427 ENTSR\*10 REF TO STK 0 010274 5073 10  
 015430 STRAL\*8UTCFS STR IN AIMAT 010275 44 5400  
 015431 ENTSR\*00 010276 5073 00

015432 STRICR\*BB SAVE ORG ICR 010277 72 0312  
 015433 ENTICR\*03 ACT B3 010300 5072 03

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
015434		ENTBK*373 B3*373	010301	36 0373
015435	REGA	ENTSR*10	010302	5073 10
015436		ENTALB*04 CK CONTR AREA	010303	13 0004
015437		ENTSR*0	010304	5073 00
015440		CMAL*CKWD WERE BCW	010305	02 7101
015441		JPN0T*L0K+3 DISTURBED?	010306	63 0311
015442		BJP*REGA CK ALL BCW	010307	73 0302
015443		JP*BB CONTINUE	010310	34 0312
015444		IRJP*I0TAMAT REF AIMAT	010311	30 7265
015445	00	ENTICR*02 REACT 0RG ICR	010312	5072 02
015446		IJP*REQACK EXIT	010313	55 0271
015447	DELAY	0*0 ENTRY	010314	00 0000
015450		LSHAU*01 SHIFT	010315	5045 01
015451		JPAUP*L0K-1 DELAY RTN	010316	64 0315
015452		IJP*DELAY EXIT	010317	55 0314
015453	I03	0*0 ENTRY	010320	00 0000
015454		ENTAL*I03 STR ADDRS TO RECYCLE	010321	12 0320
015455		ADDALK*7776 SUBTRACT 1 FROM ENTRY	010322	71 7776
015456		ENTSR*10 REF TO STK 0	010323	5073 10
015457		STRAL*0UTCFS STR IN AIMAT	010324	44 5400
015460		ENTSR*00 REF CURRENT STK	010325	5073 00
015461		ENTALK*I03	010326	70 0320
015462		STRAL*IFALT	010327	44 7237
015463		CL*AUERDS CL ERR STR L0K	010330	40 7123
015464		CL*ALERDS	010331	40 7124
015465		RJP*REICR RESET ICR	010332	76 6400
015466	TBLI03	ENTALB*CHTBL ENT CHAN N0	010333	13 0000
015467		ENTAU*U12MSK 777700	010334	10 7111
015470		SLSU*PFRES	010335	04 0344
015471		STRAL*PFRES	010336	44 0344
015472		SLSU*PFRES+1	010337	04 0345

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

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SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
015473		STRAL*FFRES+1	010340	44 0345
015474		STRAL*FFRES+7	010341	44 0353
015475		SLSU*FFRES+4	010342	04 0350
015476		STRAL*FFRES+4	010343	44 0350
015477	FFRES	SRSN*XX SET RSM FF CHAN K	010344	5020 00
015500		SKPNR*XX SKP IF RSM FF NOT SET	010345	5057 00
015501		JP*L0K+7 OK CONTINUE	010346	34 0355
015502		RJP*RCORDI NOTE ERR	010347	76 0157
015503		EXP0V*XX	010350	5027 00
015504		ENTAU*CHAN+5	010351	10 7174
015505		RJP*DELAY ALLOW TIME FOR ACK	010352	76 0314
015506		SKPNR*XX SKP IF FF NOT SET	010353	5057 00
015507		RJP*RCORD0 NOTE ERR	010354	76 0166
015510		BJP*TBLI03 JP AND DO ALL CHAN	010355	73 0333
015511		ENTAU*AUERDS DISPLAY ERR	010356	10 7123
015512		ENTAL*ALERDS DISPLAY ERR	010357	12 7124
015513		JPAUNZ*L0K+2 ERR JP	010360	02 0362
015514		JPALZ*L0K+2 JP OUT IF NO ERR	010361	01 0363
015515		IRJP*I0TAMAT REF TO AIMAT	010362	30 7265
015516		IJP*I03 EXIT	010363	55 0320
015517		RESERV*1	010364	000000
015520	I0456	0*0 ENTRY	010365	00 0000
015521		ENTALK*I0456	010366	70 0365
015522		STRAL*IFAUULT	010367	44 7237
015523		ENTALK*1500 PRESTR	010370	70 1500
015524		STRADR*CKTER4+3 INSTP	010371	74 0457
015525		STRADR*CKTER5+1 SKPIIN	010372	74 0467
015526		ENTALK*2100 AND	010373	70 2100
015527		STRADR*CKTER4+4 SIN	010374	74 0460
015530		STRADR*CKTER5+2 F CODES	010375	74 0470
015531		ENTALK*100 IN	010376	70 0100

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NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0229
015532		STRADR*CKTERS RTN	010377	74 0466		
015533		RJP*I06 RUN I04	010400	76 0424		
015534		ENTALK*1600 PRESTR	010401	70 1600		
015535		STRADR*CKTER4+3 OUTSTP	010402	74 0457		
015536		STRADR*CKTER5+1 SKP0IN	010403	74 0467		
015537		ENTALK*2200 AND	010404	70 2200		
015540		STRADR*CKTER4+4 SOUT	010405	74 0460		
015541		STRADR*CKTER5+2 F CODES	010406	74 0470		
015542		ENTALK*200 IN	010407	70 0200		
015543		STRADR*CKTERS RTN	010410	74 0466		
015544		RJP*I06 RUN I05	010411	76 0424		
015545		ENTALK*1700 PRESTR	010412	70 1700		
015546		STRADR*CKTER4+3 EXFSTP	010413	74 0457		
015547		STRADR*CKTER5+1 SKPFIN	010414	74 0467		
015550		ENTALK*2300 AND	010415	70 2300		
015551		STRADR*CKTER4+4 SEXF	010416	74 0460		
015552		STRADR*CKTER5+2 F CODES	010417	74 0470		
015553		ENTALK*300 IN	010420	70 0300		
015554		STRADR*CKTERS RTN	010421	74 0466		
015555		RJP*I06 RUN I06	010422	76 0424		
015556		IJP*I0456 EXIT	010423	55 0365		
015557	I06	0*0 ENTRY	010424	00 0000		
015560		ENTAL*I06 STR ADDRS TO RECYCLE	010425	12 0424		
015561		ADDALK*7776 SUBTRACT 1 FROM AL	010426	71 7776		
015562		ENTSR*10 REF TO STK 0	010427	5073 10		
015563		STRAL*8UTCFS STR IN AIMAT	010430	44 5400		
015564		ENTSR*00 REF TO CURRENT STK	010431	5073 00		
015565		ENTALK*I06	010432	70 0424		
015566		STRAL*IFault	010433	44 7237		
015567		CL*AUERDS CL ERR	010434	40 7123		
015570		RJP*8TALAC ACT ALL CHAN	010435	76 0134		

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TABLE 8-73 PROGRAM LISTING  
NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

SEONO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1450		015571 RJP*REICR RESET ICR	010436	76 0400
	TBLI06	015572 ENTALB*CHTBL ENT CHAN N0	010437	13 0000
		015573 ENTAU*U12MSK 777700	010440	10 7111
		015574 SLSU*CKTER4+3 SET HI CHAN N0	010441	04 0457
		015575 STRAL*CKTER4+3 IN RTN	010442	44 0457
CHANGE 7		015576 SLSU*CKTER5 D0	010443	04 0466
		015577 STRAL*CKTER5	010444	44 0466
		015600 SLSU*CKTER5+2 D0	010445	04 0470
		015601 STRAL*CKTER5+2	010446	44 0470
		015602 BJP*L0K+1 DECR B2	010447	73 0450
		015603 ENTALB*CHTBL ENT CHTBL=1	010450	13 0000
		015604 SLSU*CKTER5+1 LOWER CHAN	010451	04 0467
		015605 STRAL*CKTER5+1 IN RTN	010452	44 0467
		015606 ENTAU*U12MSK REENT MSK = RC0RDI MAY CHNG IT	010453	10 7111
	CKTER4	015607 ENTALB*CHTBL ENT CHAN N0	010454	13 0000
		015610 SLSU*L0K+3	010455	04 0460
		015611 STRAL*L0K+2	010456	44 0460
		015612 EXPSTP*XX TERM HI CHAN	010457	0017 00
		015613 SKPPIN*XX CK A LOWER CHAN FOR TERM	010460	0023 00
		015614 JP*L0K+2 0K, CONTINUE	010461	34 0463
		015615 RJP*RC0RDI RCD ERR	010462	76 0157
		015616 BJP*CKTER4=1 CK ALL LOWER CHAN	010463	73 0453
		015617 ENTAU*AUERDS DISPLAY ERR STR L0K	010464	10 7123
		015620 ENTAL*L0K+1 DISPLAY FUNCTION IF ERR	010465	12 0466
	CKTER5	015621 SEXP*XX ACT HI CHAN	010466	0003 00
		015622 EXPSTP*XX TERM A LOWER CHAN	010467	0017 00
		015623 SKPPIN*XX CK HI CHAN FOR TERM	010470	0023 00
		015624 JP*L0K+2 0K, CONTINUE	010471	34 0473
		015625 IRJP*I0TAMAT REF TO AIMAT	010472	30 7205
		015626 JPAUZ*L0K+2 N0 ERR JP BUT	010473	00 0475
		015627 IRJP*I0TAMAT REF TO AIMAT	010474	30 7205

TABLE 8-73 PROGRAM LISTING  
 NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A



SEGN0	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0231
015630		RJP*TERMAL	010475	76 0000		
015631		IJP*I06 EXIT	010476	55 0424		
015632		RESERV*1	010477	000000		
015633	I0789	0*0 ENTRY	010500	00 0000		
015634		ENTALK*I0789	010501	70 0500		
015635		STRAL*IFAUULT	010502	44 7237		
015636		ENTALK*100 PRESTR	010503	70 0100		
015637		STRADR*CKACT4+3 SIN	010504	74 0571		
015640		STRADR*CKACT5+1 SKPIIN	010505	74 0600		
015641		ENTALK*2100 AND	010506	70 0100		
015642		STRADR*CKACT4+4 INSTP	010507	74 0572		
015643		STRADR*CKACT5+2 F CODES	010510	74 0601		
015644		ENTALK*1500 IN	010511	70 1500		
015645		STRADR*CKACT5 RTN	010512	74 0577		
015646		RJP*I09 RUN I07	010513	70 0537		
015647		ENTALK*200 PRESTR	010514	70 0200		
015650		STRADR*CKACT4+3 SOUT	010515	74 0571		
015651		STRADR*CKACT5+1 SKP0IN	010516	74 0600		
015652		ENTALK*2200 AND	010517	70 0200		
015653		STRADR*CKACT4+4 OUTSTP	010520	74 0572		
015654		STRADR*CKACT5+2 F CODES	010521	74 0601		
015655		ENTALK*1600 IN	010522	70 1600		
015656		STRADR*CKACT5 RTN	010523	74 0577		
015657		RJP*I09 RUN I08	010524	70 0537		
015660		ENTALK*300 PRESTR	010525	70 0300		
015661		STRADR*CKACT4+3 SEXF	010526	74 0571		
015662		STRADR*CKACT5+1 SKPFIN	010527	74 0600		
015663		ENTALK*2300 AND	010530	70 0300		
015664		STRADR*CKACT4+4 EXFSTP	010531	74 0572		
015665		STRADR*CKACT5+2 F CODES	010532	74 0601		
015666		ENTALK*1700 IN	010533	70 1700		

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NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEGN0	LABEL	STATEMENT	ADDRESS	INSTRUCT
015667		STRADR*CKACT5 RTN	010534	74 0577
015670		RJP*I09 RUN I09	010535	76 0537
015671		IJP*I0789 EXIT	010536	55 0000
015672	I09	0*0 ENTRY	010537	00 0000
015673		ENTAL*I09 STR ADDR8 T0 RECYCLE	010540	12 0537
015674		ADDALK*7776 SUBTRACT 1 FROM ENTRY	010541	71 7776
015675		ENTSR*10 REF T0 STK 0	010542	0073 10
015676		STRAL*SUTCFS STR IN AIMAT	010543	44 5400
015677		ENTSR*00 REF CURRENT STK	010544	0073 00
015700		ENTALK*I09	010545	70 0537
015701		STRAL*IFault	010546	44 7237
015702		CL*AUERDS CL ERR STR L0K	010547	40 7123
015703		RJP*TERMAL TERM ALL CHAN	010550	76 0000
015704		RJP*REICR RESET ICR	010551	76 0400
015705	TBLI09	ENTALB*CHTBL ENT CHAN N0	010552	13 0000
015706		ENTAU*U12MSK 777700	010553	10 7111
015707		SLSU*CKACT4+3 SET HI CHAN	010554	04 0571
015710		STRAL*CKACT4+3 N0 IN RTN	010555	44 0571
015711		SLSU*CKACT5 D0	010556	04 0577
015712		STRAL*CKACT5	010557	44 0577
015713		SLSU*CKACT5+2 D0	010560	04 0001
015714		STRAL*CKACT5+2	010561	44 0001
015715		BJP*L0K+1 DECR B2	010562	73 0563
015716		ENTALB*CHTBL ENT NEXT L0 CHAN N0	010563	13 0000
015717		SLSU*CKACT5+1 LOWER CHAN	010564	04 0000
015720		STRAL*CKACT5+1 N0 IN RTN	010565	44 0000
015721	CKACT4	ENTALB*CHTBL ENT CHAN N0	010566	13 0000
015722		SLSU*L0K+3	010567	04 0572
015723		STRAL*L0K+2	010570	44 0572
015724		SEXF*XX SET HI CHAN ACT	010571	5003 00
015725		SKPFIN*XX WAS A LOWER CHAN ACTVTD?	010572	5023 00

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NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEGNU	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0233
015726		RJP*RCORDI RCD ERR	010573	76 6157		
015727		BJP*CKACT4 CK ALL CHAN	010574	73 0566		
015730		ENTAU*AUERDS DISPLAY ERR STR LOK	010575	10 7123		
015731		ENTAL*L0K+1 DISPLAY FUNC IF ERR	010576	12 0577		
015732	CKACT5	EXFSTP*XX TERM HI CHAN	010577	0017 00		
015733		SEXP*XX ACT NEXT LOWER CHAN	010600	5003 00		
015734		SKPPIN*XX WAS HI CHAN ACTVTD?	010601	5023 00		
015735		IRJP*I0TAMAT REF AIMAT	010602	39 7265		
015736		JPAUZ*L0K+2 NO ERR JP OUT	010603	69 9605		
015737		IRJP*I0TAMAT REF AIMAT	010604	39 7265		
015740		IJP*I00 EXIT	010605	05 0537		
015741		RESERV*1	010606	000000		
015742	I010	0*0 ENTRY	010607	00 0000		
015743		ENTAL*I010 STR ADDRS TO RECYCLE	010610	12 0607		
015744		ADDALK*7776 SUBTRACT 1 FROM ENTRY	010611	71 7776		
015745		ENTSR*10 REF TO STK 0	010612	0073 10		
015746		STRAL*SUTCFS STR IN AIMAT	010613	44 5400		
015747		ENTSR*00 REF CURRENT STK	010614	0073 00		
015750		ENTALK*I010	010615	70 9607		
015751		STRAL*IFAUULT	010616	44 7237		
015752		CL*AUERDS CL ERR STR LOK	010617	40 7123		
015753		CL*ALERDS CL ERR STR LOK	010620	40 7124		
015754		RJP*REICR RESET ICR	010621	76 0400		
015755	TBL10	RJP*TERMAL TERM ID, 00, EF	010622	76 0000		
015756		ENTALB*CHTBL ENT CHAN NO	010623	13 0000		
015757		ENTAU*U12MSK 777700	010624	19 7111		
015760		SLSU*FUNC-1 PRESTR CHAN	010625	04 0633		
015761		STRAL*FUNC-1 NO IN RTN	010626	44 0633		
015762		SLSU*FUNC	010627	04 0634		
015763		STRAL*FUNC	010630	44 0634		
015764		SLSU*FUNC+2	010631	04 0636		

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

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SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
015765		STRAL*FUNC+2	010632	44 0636
015766		SEXP*XX SET EF ACT	010633	5003 00
015767	FUNC	SKP0IN*XX CK FALSE OUT ACT	010634	5022 00
015770		RJP*RCORDI NOTE ERR	010635	76 6157
015771		SKPIIN*XX CK FALSE IN ACT	010636	5021 00
015772		RJP*RCORD0 NOTE ERR	010637	76 6166
015773		BJP*TBL10 CK ALL CHAN	010640	73 0622
015774		ENTAU*AUERDS DISPLAY ERR	010641	10 7123
015775		ENTAL*ALERDS DISPLAY ERR	010642	12 7124
015776		JPAUNZ*L0K+2 CK FOR ERR	010643	02 0645
015777		JPALZ*L0K+2 CK FOR ERR	010644	01 0646
016000		IRJP*IRTAMAT REF AIMAT	010645	30 7265
016001		IJP*I010 EXIT	010646	55 0607
016002		RESERV*1	010647	000000
016003	I011	0*0 ENTRY	010650	00 0000
016004		ENTAL*I011 STR ADDR TO RECYCLE	010651	12 0650
016005		ADDALK*7776 SUBTRACT 1 FROM ENTRY	010652	71 7776
016006		ENTSR*10 REF TO STK 0	010653	5073 10
016007		STRAL*8UTCFS STR IN AIMAT	010654	44 5400
016010		ENTSR*00 REF CURRENT STK	010655	5073 00
016011		ENTALK*I011	010656	70 0650
016012		STRAL*IFault	010657	44 7237
016013		CL*AUERDS CLEAR	010660	40 7123
016014		CL*ALERDS ERR	010661	40 7124
016015		RJP*TERMAL TERM ID,0D,EF ALL CHAN	010662	76 6060
016016		RJP*REICR RESET ICR	010663	76 6400
016017	I011A	ENTALB*CHTBL ENT CHAN NO	010664	13 0000
016020		ENTAU*U12MSK 777700	010665	10 7111
016021		SLSU*I011IN MOD CHAN AND	010666	04 0705
016022		STRAL*I011IN RESTR TO RTN	010667	44 0705
016023		SLSU*I011IN+3	010670	04 0710

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

TABLE 8-73 PROGRAM LISTING

SEGN0	LABEL	STATEMENT	ADDRESS	INSTRUCT
016024		STRAL*I011IN+3	010671	44 0710
016025		SLSU*C0NTH	010672	04 0713
016026		STRAL*C0NTH	010673	44 0713
016027		STRAL*I0110U	010674	44 1003
016030		SLSU*C0NTH+3	010675	04 0716
016031		STRAL*C0NTH+3	010676	44 0716
016032		STRAL*I0110U+3	010677	44 1006
016033		SLSU*I011EF	010700	04 1065
016034		STRAL*I011EF-	010701	44 1065
016035		SLSU*I011EF+3	010702	04 1070
016036		STRAL*I011EF+3	010703	44 1070
016037		RJP*CLCWAR CL CM BCW STR AREA	010704	76 6120
016040	I011IN	IN*XX ENBL ID	010705	5011 00
016041		0*CKWD+1 AND STR	010706	017102
016042		0*CKWD BUF CW ADDR	010707	017101
016043		<del>SKPIIN*XX</del> SKP IF IN ACT	010710	5021 00
016044		JP*CONTI CONTINUE IF ACT	010711	34 0724
016045		ENTAL*I011IN NOTE ERR AND DISPLAY	010712	12 0705
016046	C0NTH	0UT*XX CK AN0THER FUNC	010713	5012 00
016047		0*CKWD+1	010714	017102
016050		0*CKWD	010715	017101
016051		SKP0IN*XX SKP IF IN ACT	010716	5022 00
016052		JP*L0K+4 JP TO ERR STOP	010717	34 0723
016053		ENTAU*I011IN DISPLAY FUNC	010720	10 0705
016054		IRJP*I0TAMAT REF AIMAT	010721	30 7265
016055	C0NTHA	N0=0P RJP TO RUNENT IF ERR DETECTED	010722	5047 00
016056		IRJP*I0TAMAT REF AIMAT	010723	30 7265
016057	C0NTI	ENTAL*C0NTHA CHECK IF ERR	010724	12 0722
016060		STRAL*L0K+1 IF AN ERR WAS DETECTED AFTER INPUT	010725	44 0726
016061		N0=0P AND 0UTPUT G0 TO RUNENT HERE	010726	5047 00
016062		ENTALB*CHTBL ENT CHAN NUM	010727	13 0000

TABLE 8-73 PROGRAM LISTING

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

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SEONO	LABEL	STATEMENT	ADDRESS	INSTRUCT
016063		SLCL*KHMSK CHAN 10-17?	010730	52 7212
016064		JPALNZ*NEXT+1 JP IF YES	010731	63 0736
016065		ENTALB*CHTBL ENT CHAN NO	010732	13 0000
016066		LSHAL*01 2K	010733	5046 01
016067		ADDALK*060	010734	71 0060
016070	NEXT	JP*COMPR=1 JP AND COMPARE	010735	34 0742
016071		ENTALB*CHTBL ENT CHAN NO	010736	13 0000
016072		ADDALK*7767 K=10	010737	71 7767
016073		LSHAL*01 2(K=10<	010740	5046 01
016074		ADDALK*260	010741	71 0260
016075		STRAL*CCMADR SAVE TACW	010742	44 7242
016076	COMPR	STRADR*L0K+2 PRESTR CM ADR	010743	74 0745
016077		ENTSR*10 REF STACK 0	010744	5073 10
016100		ENTAL*ADR ENT TACW	010745	12 0000
016101		ENTSR*0 REF CURR STACK	010746	5073 00
016102		CMAL*CKWD+1 TACW STORED RIGHT PLACE?	010747	02 7102
016103		JPEQ*COMPRB YES CONTINUE	010750	61 0765
016104		CMAL*CKWD EQU IACW?	010751	02 7101
016105		JPN0T*COMPRD NO GO FIND	010752	63 0756
016106		ENTAU*I011IN YES DISPLAY F, K, AND IACW	010753	10 0705
016107		IRJP*I0TAMAT REF AIMAT	010754	30 7265
016110		N0=0P RJP TO RUNENT IF ERR	010755	5047 00
016111	COMPRD	ENTSR*10 REF STK 0	010756	5073 10
016112		ENTAL*TRUNCT RJP TO RUNENT	010757	12 5357
016113		ENTSR*00 REF CURRENT STK	010760	5073 00
016114		CMAL*COMPRD=1 IF COMP THERE WAS AN ERR	010761	02 0755
016115		JPEQ*L0K+2 PREVIOUS TO NOW	010762	61 0764
016116		RJP*SRCHM GO FIND	010763	76 1156
016117		IRJP*I0TRUNT REF RUNENT	010764	30 7266
016120		REMARK TACW FOUND		
016121	COMPRB	ENTAL*COMPRD=1 IF AN ERR HAS BEEN DETECTED	010765	12 0755

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0237
016122		STRAL*L0K+1 GO TO RUNENT INSTED OF	010766	44 0767		
016123		N0=0P CONTINUING 0N	010767	5047 00		
016124		ENTAL*CCMADR	010770	12 7242		
016125		ADDALK*01 TACW+1 FOR IACW STR ADR	010771	71 0001		
016126		STRADR*L0K+2 PRESTR	010772	74 0774		
016127		ENTSR*10 REF STACK 0	010773	5073 10		
016130		ENTAL*ADR ENT IACW	010774	12 0000		
016131		ENTSR*0 REF CURR STACK	010775	5073 00		
016132		CMAL*CKWD IACW STORED RIGHT PLACE?	010776	02 7101		
016133		JPEG*L0K+3	010777	01 1002		
016134		ENTAU*I011IN	011000	10 0705		
016135		IRJP*I0TAMAT REF AIMAT	011001	30 7205		
016136		RJP*CLCWAR CL CM BCW STR AREA	011002	76 0120		
016137	I0110U	OUT*XX COMMENTS SIMILAR TO	011003	5012 00		
016140		0*CKWD+1 I011IN ABOVE	011004	017102		
016141		0*CKWD	011005	017101		
016142		SKP0IN*XX	011006	5022 00		
016143		JP*CONT0	011007	34 1011		
016144		RJP*RCORD0	011010	76 0100		
016145	CONT0	ENTALB*CHTBL ENT CHAN N0	011011	13 0000		
016146		SLCL*KHMSK	011012	52 7212		
016147		JPALNZ*NEXTA+1	011013	03 1020		
016150		ENTALB*CHTBL ENT CHAN N0	011014	13 0000		
016151		LSHAL*01	011015	5046 01		
016152		ADDALK*040	011016	71 0040		
016153	NEXTA	JP*COMPRA=1	011017	34 1024		
016154		ENTALB*CHTBL	011020	13 0000		
016155		ADDALK*7767	011021	71 7767		
016156		LSHAL*01	011022	5046 01		
016157		ADDALK*240	011023	71 0240		
016160		STRAL*CCMADR	011024	44 7242		

CHANGE 7 8-1457

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1458	016161	COMPRA STRADR*L0K+2	011025	74 1027
	016162	ENTSR*10	011026	0073 10
	016163	ENTAL*ADR	011027	12 0000
	016164	ENTSR*0	011030	0073 00
	016165	CMAL*CKWD+1	011031	02 7102
	016166	JPEG*COMPRAB YES CONTINUE	011032	01 1047
	016167	CMAL*CKWD	011033	02 7101
CHANGE 7	016170	JPN0T*COMPRAA NO GO FIND	011034	03 1040
	016171	ENTAU*I0110U	011035	10 1003
	016172	IRJP*I0TAMAT REF AIMAT	011036	30 7205
	016173	NO=0P RJP TO RUNENT IF ERR	011037	0047 00
	016174	COMPRAA ENTSR*10 REF STK 0	011040	0073 10
	016175	ENTAL*TRUNCT RJP TO RUNENT	011041	12 5307
	016176	ENTSR*00 REF CURRENT STK	011042	0073 00
	016177	CMAL*COMPRAA=1 IF COMP THERE WAS AN ERR	011043	02 1037
	016200	JPEG*L0K+2 PREVIOUS TO NOW	011044	01 1040
	016201	RJP*SRCHM GO FIND	011045	70 1100
	016202	IRJP*I0TRUNT REF RUNENT	011046	30 7200
	016203	COMPRAB ENTAI*COMPRAA=1 IF AN ERR HAS BEEN DETECTED	011047	12 1037
	016204	STRAL*L0K+1 GO TO RUNENT INSTED OF	011050	44 1051
	016205	NO=0P CONTINUING ON	011051	0047 00
	016206	ENTAL*CCMADR	011052	12 7242
	016207	ADDALK*01	011053	71 0001
	016210	STRADR*L0K+2	011054	74 1050
	016211	ENTSR*10	011055	0073 10
	016212	ENTAL*ADR	011056	12 0000
	016213	ENTSR*0	011057	0073 00
	016214	CMAL*CKWD	011060	02 7101
	016215	JPEG*L0K+3	011061	01 1004
	016216	ENTAU*I0110U	011062	10 1003
	016217	IRJP*I0TAMAT REF AIMAT	011063	30 7205

TABLE 8-73 PROGRAM LISTING

NAVSEA OP 3514 (PMS/SMS). VOLUME 2 PART 2A



SEGNU	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0239
016220		RJP*CLCWAR CL CM BCW STR AREA	011064	76 0120		
016221	I011EF	EXP*17 COMMENTS SIMILAR TO	011065	5013 17		
016222		0*CKWD+1 I011IN ABOVE	011066	017102		
016223		0*CKWD	011067	017101		
016224		SKPPIN*17	011070	5023 17		
016225		JP*CONTF	011071	34 1073		
016226		RJP*RCORDI	011072	76 0157		
016227	CONTF	ENTALB*CHTBL	011073	13 0000		
016230		SLCL*KHMSK	011074	52 7212		
016231		JPALNZ*NEXTB+1	011075	63 1102		
016232		ENTALB*CHTBL	011076	13 0000		
016233		LSHAL*01	011077	5046 01		
016234		ADDALK*020	011100	71 0020		
016235	NEXTB	JP*COMPRC=1	011101	34 1106		
016236		ENTALB*CHTBL	011102	13 0000		
016237		ADDALK*7767	011103	71 7767		
016240		LSHAL*01	011104	5046 01		
016241		ADDALK*0220	011105	71 0220		
016242		STRAL*CCADR	011106	44 7242		
016243	COMPRC	STRADR*L0K+2	011107	74 1111		
016244		ENTSR*10	011110	5073 10		
016245		ENTAL*ADR	011111	12 0000		
016246		ENTSR*0	011112	5073 00		
016247		CMAL*CKWD+1	011113	02 7102		
016250		JPEG*COMPRCB	011114	01 1131		
016251		CMAL*CKWD	011115	02 7101		
016252		JPN0T*COMPRCA	011116	03 1122		
016253		ENTAU*I011EF	011117	10 1065		
016254		IRJP*I0TAMAT REF AIMAT	011120	30 7265		
016255		NO=0P	011121	5047 00		
016256	COMPRCA	ENTSR*10 TEST TO SEE IF THERE HAS	011122	5073 10		

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NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEGNU	LABEL	STATEMENT	ADDRESS	INSTRUCT
016257		ENTAL*TRUNCT	011123	12 5357
016260		ENTSR*00	011124	5073 00
016261		CMAL*COMPRCA-1	011125	02 1121
016262		JPEQ*L0K+2	011126	01 1130
016263		RJP*SRCHM	011127	76 1150
016264		IRJP*I0TRUNT	011130	30 7200
016265	COMPRCB	ENTAL*COMPRCA-1	011131	12 1121
016266		STRAL*L0K+1	011132	44 1133
016267		N0=0P	011133	5047 00
016270		ENTAL*CCMADR	011134	12 7242
016271		ADDALK*01	011135	71 0001
016272		STRADR*L0K+2	011136	74 1140
016273		ENTSR*10	011137	5073 10
016274		ENTAL*ADR	011140	12 0000
016275		ENTSR*0	011141	5073 00
016276		CMAL*CKWD	011142	02 7101
016277		JPEQ*L0K+3	011143	01 1140
016300		ENTAU*I011EF	011144	10 1005
016301		IRJP*I0TAMAT	011145	30 7205
016302		BJP*I011A	011146	73 0004
016303		ENTAU*AUERDS	011147	10 7123
016304		ENTAL*ALERDS	011150	12 7124
016305		JPAUNZ*L0K+2	011151	02 1153
016306		JPALZ*L0K+2	011152	01 1154
016307		IRJP*I0TAMAT	011153	30 7205
016310		IJP*I011 EXIT	011154	55 0050
016311		RESERV*1	011155	000000
016312	SRCHM	0*0 ENT	011156	00 0000
016313		ENTAL*SRCHM	011157	12 1150
016314		ADDALK*7776	011160	71 7776
016315		ENTSR*10	011161	5073 10

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0241
016316		STRAL+SUTCFS STR IN AIMAT	011162	44 5400		
016317		ENTSR*00 REF CURRENT STK	011163	5073 00		
016320		ENTALK*01 LOOK AT ADDR 0-1	011164	70 0001		
016321		STRADR*SRCH+1	011165	74 1234		
016322		ENTALK*0	011166	70 0000		
016323		STRADR*SRCH+3	011167	74 1236		
016324		ENTICR*03 USE B3	011170	5072 03		
016325		RJP*SRCH	011171	76 1233		
016326		ENTALK*073 LOOK AT ADDR 4-77	011172	70 0073		
016327		STRADR*SRCH+1	011173	74 1234		
016330		ENTALK*04	011174	70 0004		
016331		STRADR*SRCH+3	011175	74 1236		
016332		RJP*SRCH	011176	76 1233		
016333		ENTALK*077 LOOK AT ADDR 200-277	011177	70 0077		
016334		STRADR*SRCH+1	011200	74 1234		
016335		ENTALK*200	011201	70 0200		
016336		STRADR*SRCH+3	011202	74 1236		
016337		RJP*SRCH	011203	76 1233		
016340		ENTALK*077 LOOK AT ADDR 400-477	011204	70 0077		
016341		STRADR*SRCH+1	011205	74 1234		
016342		ENTALK*0400	011206	70 0400		
016343		STRADR*SRCH+3	011207	74 1236		
016344		RJP*SRCH	011210	76 1233		
016345		ENTALK*077 LOOK AT ADDR 600-677	011211	70 0077		
016346		STRADR*SRCH+1	011212	74 1234		
016347		ENTALK*0600	011213	70 0600		
016350		STRADR*SRCH+3	011214	74 1236		
016351		RJP*SRCH	011215	76 1233		
016352		ENTAU*U12MSK DIS FLAG IF NOT FOUND	011216	10 7111		
016353		IRJP*IoTAMAT REF AIMAT	011217	30 7265		
016354		N0=0P	011220	5047 00		

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7

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CHANGE 7

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
016355	F0NDIT	LSHA*180 AUMBCW	011221	5047 22
016356		ENTAL*SRCHM MAIN P	011222	12 1156
016357		STRAL*FAULTI	011223	44 7236
016360		RJP*DISPOC C#ADR IN MAIN PR0G	011224	76 6024
016361		ENTAL*SRCH+3	011225	12 1236
016362		SLCL*L12MSK	011226	52 7246
016363		ENTSR*10	011227	5073 10
016364		ADDAL*03 AL#ADDR 0F BCW F0UND	011230	14 0003
016365		IRJP*I0TAMAT REF AIMAT	011231	30 7265
016366		N0=0P	011232	5047 00
016367	SRCH	0*0 ENTRY	011233	00 0000
016370		ENTBK*XX B+(L0K+2<#HIUST ADR SRCHD	011234	36 0000
016371		ENTSR*10 REF BANK 0	011235	5073 10
016372		ENTALB*ADR LOWEST ADDR BEING SEARCHED	011236	13 0000
016373		ENTSR*00 REF CURRENT BANK	011237	5073 00
016374		CMAL*CKWD IACW?	011240	02 7101
016375		JPEQ*F0NDIT YES JP	011241	61 1221
016376		CMAL*CKWD+1 N0, TACW?	011242	02 7102
016377		JPEQ*F0NDIT YES JP	011243	61 1221
016400		BJP*L0K=7 N0, CK REST 0F THIS GR0UP	011244	73 1235
016401		IJP*SRCH EXIT = N0T F0UND IN THIS GR0UP	011245	55 1233
016402	I012	0*0 ENTRY	011246	00 0000
016403		ENTAL*I012 STR ADDRS T0 RECYCLE	011247	12 1246
016404		ADDALK*7776 SUBTRACT 1 FR0M ENTRY	011250	71 7776
016405		ENTSR*10 REF STK 0	011251	5073 10
016406		STRAL*SUTCFS STR IN AIMAT	011252	44 5400
016407		ENTSR*00 REF CURRENT STK	011253	5073 00
016410		ENTALK*I012	011254	70 1246
016411		STRAL*IFALT	011255	44 7237
016412		RJP*JMPRD FIND N0N-JMPRD CHAN	011256	76 6321
016413		RJP*REICR	011257	76 6400

TABLE 8-73 PROGRAM LISTING  
 NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0243
016414	1012R	RJP*CLCWAR CL 04-677	011260	76	6120	
016415		ENTALK*100 STORE	011261	70	0100	
016416		STRAL*MNAREA RJPS	011262	44	7213	
016417		ENTALK*300 IN	011263	70	0300	
016420		STRAL*MNAREA+1 EXT	011264	44	7214	
016421		ENTAL*RJPEI1 INT	011265	12	5775	
016422		STRAL*MNADR ENTRANCE	011266	44	7213	
016423		RJP*CMRJP AREA 100-117 AND 300-317	011267	76	6036	
016424		ENTALK*120 PRESTORE	011270	70	0120	
016425		STRAL*MNAREA RJP	011271	44	7213	
016426		ENTALK*320 IN EF MON	011272	70	0320	
016427		STRAL*MNAREA+1 INT ADDR	011273	44	7214	
016430		ENTAL*RJPEF	011274	12	6410	
016431		STRAL*MNADR	011275	44	7215	
016432		RJP*CMRJP	011276	76	6036	
016433		ENTALK*140 PRESTORE	011277	70	0140	
016434		STRAL*MNAREA RJP	011300	44	7213	
016435		ENTALK*340 IN OUT MON	011301	70	0340	
016436		STRAL*MNAREA+1 INT ADDR	011302	44	7214	
016437		ENTAL*RJP0UT	011303	12	6424	
016440		STRAL*MNADR	011304	44	7215	
016441		RJP*CMRJP	011305	76	6036	
016442	1012A	ENTALB*CHTBL ENT CHAN NO	011306	13	0000	
016443		ENTAU*U12MSK 777700	011307	10	7111	
016444		8LSU*EXFFCK MOD CHAN AND	011310	04	1336	
016445		STRAL*EXFFCK RESTR TO RTN	011311	44	1336	
016446		8LSU*EXFFCK+3	011312	04	1341	
016447		STRAL*EXFFCK+3	011313	44	1341	
016450		STRAL*CK0UT+6	011314	44	1414	
016451		8LSU*EXFFCK+7	011315	04	1345	
016452		STRAL*EXFFCK+7	011316	44	1345	

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1463

SEGNU	LABEL	STATEMENT	ADDRESS	INSTRUCT
016453		STRAL*CKOUTTB	011317	44 1433
016454		SLSU*CKCDM	011320	04 1441
016455		STRAL*CKCDM	011321	44 1441
016456		SLSU*CKCDM+3	011322	04 1444
016457		STRAL*CKCDM+3	011323	44 1444
016460		SLSU*CKCDM+7	011324	04 1450
016461		STRAL*CKCDM+7	011325	44 1450
016462		SLSU*CKADRR	011326	04 1353
016463		STRAL*CKADRR SKPNR	011327	44 1353
016464		STRAL*CKADRR+4 SKPNR	011330	44 1357
016465		STRAL*CKOUTT SKPNR	011331	44 1417
016466		STRAL*CKOUTT+5 SKPNR	011332	44 1424
016467		SLSU*CKADRR+2	011333	04 1355
016470		STRAL*CKADRR+2 SRSM	011334	44 1355
016471		STRAL*CKOUTT+2 SRSM	011335	44 1421
016472	EXFFCK	EXP*XX D0 EF 0N HI CHAN	011336	5013 00
016473		0*CKWD+1 STORE	011337	017102
016474		0*CKWD BCW	011340	017101
016475		EXP0V*XX FORCE	011341	5027 00
016476		ENTAU*CHAN+16 040000	011342	10 7205
016477		LSHAU*01	011343	5045 01
016500		JPAUP*L0K-1 ALLOW TIME FOR TERM	011344	64 1343
016501		SKPFIN*XX DID BUF TERM?	011345	5023 00
016502		JP*L0K+4 NO, CONTINUE	011346	34 1352
016503		RJP*BEGUZO CK B#0 CKT	011347	76 1466
016504		ENTAL*L0K-3 DISPLAY F AND CHAN	011350	12 1345
016505		IRJP*Y0TAMAT REF AIMAT	011351	30 7265
016506		REMARK*RECOGNITION OF DUAL IS IDENTIFIED ON C REGS		
016507		NO-0P	011352	5047 00
016510	CKADRR	SKPNR*XX WAS RESUME RESET?	011353	5057 00

8-1464

CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
016511		JP*CKADR YES CONTINUE	011354	34 1363
016512		SRSM*XX NO-TRY PR0G SET	011355	5020 00
016513		ENTAL*L0K+1 DISPLAY CHAN	011356	12 1357
016514		SKPNR*XX DID PR0G RESET W0RK?	011357	5057 00
016515		IRJP*I0TAMAT REF AIMAT	011360	30 7265
016516		IRJP*I0TAMAT REF AIMAT	011361	30 7265
016517		NO=0P	011362	5047 00
016520	CKADR	ENTAL*CKADR-1	011363	12 1362
016521		STRAL*L0K+1	011364	44 1365
016522		NO=0P	011365	5047 00
016523		ENTALB*CHTBL	011366	13 0000
016524		SLCL*KHMSK CHAN 10=17?	011367	52 7212
016525		JPALNZ*CK0UTD JP IF YES	011370	03 1375
016526		ENTALB*CHTBL ENT L0 CHAN NO	011371	13 0000
016527		LSHAL*01 2K	011372	5046 01
016530		ADDALK*21 CONTR MEM ADDR 21=37	011373	71 0021
016531		JP*CK0UTD+4 JP AND COMPARE	011374	34 1401
016532	CK0UTD	ENTALB*CHTBL ENT HI CHAN NO	011375	13 0000
016533		ADDALK*7767 K=10	011376	71 7767
016534		LSHAL*01 2(K=10<	011377	5046 01
016535		ADDALK*221 CONTR MEM ADDR 221=237	011400	71 0221
016536		STRADR*L0K+2 SAVE CACW ADDR	011401	74 1403
016537		ENTSR*10 REF STACK 0	011402	5073 10
016540		ENTAL*ADR ENT CACW	011403	12 0000
016541		ENTSR*0 REF CURR STACK	011404	5073 00
016542		STRAL*CCMADR SAVE BCW	011405	44 7242
016543	CK0UT	CMAL*CKWD WAS CACW CHNGD AT ALL?	011406	02 7101
016544		JPEQ*SRCHCM NO, SRCH CM	011407	01 6454
016545		CMAL*CKWD+1 YES, WAS IT INCR?	011410	02 7102
016546		JPEQ*CORRECT YES, CONTINUE	011411	01 7274
016547		JP*CORRECT=1	011412	34 7273

CHANGE 7

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CHANGE 7

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
016550		EXP0V*XX	011413	5027 00
016551		ENTAU*CHAN+16	011414	10 7205
016552		LSHAU*01	011415	5045 01
016553		JPAUP*L0K-1	011416	64 1415
016554	CK0UTT	SKPNR*XX WAS RESUME RESET?	011417	5057 00
016555		JP*CK0UTTA	011420	34 1430
016556		SRSM*XX NO=TRY PR0G SET	011421	5020 00
016557		ENTAL*L0K+2 DISPLAY CHAN	011422	12 1424
016560		ENTAU*NTDSTD DISPLAY STD1218/NTDS 1219 FLAG	011423	10 7262
016561		SKPNR*XX DID PR0G RESET W0RK?	011424	5057 00
016562		IRJP*I0TAMAT REF AIMAT	011425	30 7265
016563		IRJP*I0TAMAT REF AIMAT	011426	30 7265
016564		NO=0P	011427	5047 00
016565	CK0UTTA	ENTAL*CK0UTTA=1	011430	12 1427
016566		STRAL*L0K+1	011431	44 1432
016567		NO=0P	011432	5047 00
016570	CK0UTTB	SKPFIN*XX TERMINATE	011433	5023 00
016571		JP*CKCDM NO	011434	34 1441
016572		BJP*I012R YES CHECK ALL CHAN	011435	73 1260
016573		RJP*BEQUZ0	011436	76 1466
016574		IJP*I012 EXIT	011437	55 1246
016575		RESERV*1	011440	000000
016576	CKCDM	0UT*XX D0 0UT T0 CK F0R CDM	011441	5012 00
016577		0*CKWD+3	011442	017104
016600		0*CKWD+3	011443	017104
016601		0UT0V*XX FORCE	011444	5026 00
016602		ENTAU*CHAN+16	011445	10 7205
016603		LSHAU*01 DELAY	011446	5045 01
016604		JPAUP*L0K=1	011447	64 1446
016605		SKP0IN*XX ACTIVE?	011450	5022 00
016606		JP*CKCDMAB YES	011451	34 1455

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING



SEQNO	LABEL	STATEMENT	PAGE	0247
			ADDRESS	INSTRUCT
016607		IRJP*IOTAMAT REF AIMAT	011452	30 7265
016610	CKCDMAA	N0-0P	011453	5047 00
016611		N0-0P	011454	5047 00
016612	CKCDMAB	ENTAL*CKCDMAA IF THERE HAS BEEN AN ERR	011455	12 1453
016613		STRAL*L0K+1 DETECTED G0 T0 RUNENT IF	011456	44 1457
016614		N0-0P NOT D0 N0-0P AND G0 0N	011457	5047 00
016615		N0-0P	011460	5047 00
016616		N0-0P	011461	5047 00
016617		ENTAL*TWLV18 DSPLY NEG ALL IF 1218 M0DE	011462	12 7126
016620		IRJP*IOTAMAT REF AIMAT	011463	30 7265
016621		N0-0P	011464	5047 00
016622		N0-0P	011465	5047 00
016623	BEQUZ0	0*0 ENT	011466	00 0000
016624		SIL	011467	5034 00
016625		RJP*TERMAL TERM ALL ACT	011470	76 0000
016626		JP*CONTINUE2	011471	34 7270
016627		ENTSR*10 REF STK 0	011472	5073 10
016630		STRAL*8UTCFS STR IN AIMAT	011473	44 5400
016631		ENTSR*00 REF CURRENT STK	011474	5073 00
016632		ENTAU*CHA4 CL AU	011475	10 7163
016633		ENTALK*0 CL AL	011476	70 0000
016634		EXP*0 SET UP EF BUF CHAN 0	011477	5013 00
016635		1*70000 CONTR WD T0 CK UPPER 4 BITS	011500	17 0000
016636		1*70000	011501	17 0000
016637		EXP0V*0 SIMULATE REQ	011502	5027 00
016640		ENTAL*CHAN+16 DELAY	011503	12 7205
016641		LSHAL*01	011504	5046 01
016642		JPALP*L0K-1	011505	65 1504
016643		SKPFIN*0 TERM?	011506	5023 00
016644		ENTAU*TWELVE N0 SET FLAG	011507	10 7120
016645		EXP*0 YES D0 0THER EF WITH	011510	5013 00

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1467

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
016646		0*07777 CONTR WD TO CK L0 BITS	011511	00 7777
016647		0*07777	011512	00 7777
016650		EXF0V*0	011513	5027 00
016651		ENTAL*CHAN+16 DELAY	011514	12 7205
016652		LSHAL*01	011515	5046 01
016653		JPALP*L0K=1	011516	05 1515
016654		SKPFIN*0 TERM?	011517	5023 00
016655		JP*L0K+2 NO	011520	34 1522
016656		JPAUZ*L0K+3 YES CK UPPER BITS FLAG	011521	00 1524
016657		ENTAL*BEQUZ0 AL*ADR CAME FR	011522	12 1466
016660		IRJP*I0TAMAT REF AIMAT	011523	30 7265
016661		IJP*BEQUZ0 EXIT	011524	55 1466
016662	I013	0*0 ENTRY	011525	00 0000
016663		ENTAL*I013 STR ADDRS TO RECYCLE	011526	12 1525
016664		ADDALK*7776 SUBTRACT 1 FROM ENTRY	011527	71 7770
016665		ENTSR*10 REF STK 0	011530	5073 10
016666		STRAL*SUTCFS STR IN AIMAT	011531	44 5400
016667		ENTSR*0	011532	5073 00
016670		ENTALK*I013	011533	70 1525
016671		STRAL*IFAUULT	011534	44 7237
016672		RJP*JMPRO	011535	76 6321
016673		RJP*REICR	011536	76 6400
016674	I013R	RJP*CLCWAR	011537	76 6120
016675		RJP*CLPIN CL IN STR AREA	011540	76 7036
016676		ENTALK*100	011541	70 0100
016677		STRAL*MNAREA	011542	44 7213
016700		ENTALK*300	011543	70 0300
016701		STRAL*MNAREA+1	011544	44 7214
016702		ENTAL*RJPEI1	011545	12 5775
016703		STRAL*MNADR	011546	44 7215
016704		RJP*CHRJP	011547	76 6036

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEGNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0249
016705		ENTALK*120	011550	70	0120	
016706		STRAL*MNAREA	011551	44	7213	
016707		ENTALK*320	011552	70	0320	
016710		STRAL*MNAREA+1	011553	44	7214	
016711		ENTAL*RJPEF	011554	12	6410	
016712		STRAL*MNADR	011555	44	7215	
016713		RJP*CMRJP	011556	76	6036	
016714		ENTALK*140	011557	70	0140	
016715		STRAL*MNAREA	011560	44	7213	
016716		ENTALK*340	011561	70	0340	
016717		STRAL*MNAREA+1	011562	44	7214	
016720		ENTAL*RJP0UT	011563	12	6424	
016721		STRAL*MNADR	011564	44	7215	
016722		RJP*CMRJP	011565	76	6036	
016723	I013A	ENTALB*CHTBL	011566	13	0000	
016724		ENTAU*U12MSK	011567	10	7111	
016725		SLSU*INBUF	011570	04	1604	
016726		STRAL*INBUF	011571	44	1604	
016727		SLSU*AUTFCK	011572	04	1610	
016730		STRAL*AUTFCK	011573	44	1610	
016731		SLSU*AUTFCK+3	011574	04	1613	
016732		STRAL*AUTFCK+3	011575	44	1613	
016733		STRAL*CK0UV+7	011576	44	1656	
016734		SLSU*CKADRA=4	011577	04	1623	
016735		STRAL*CKADRA=4	011600	44	1623	
016736		STRAL*CK0UV+13	011601	44	1662	
016737		SLSU*INBUF+3	011602	04	1607	
016740		STRAL*INBUF+3	011603	44	1607	
016741	INBUF	IN*XX	011604	5011	00	
		SET INPUT AREA				
016742		0*PIN	011605		017046	
016743		0*PIN	011606		017046	

CHANGE 7 8-1469

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1470	AUTFCK	INSTP*XX CLR IN ACT	011607	5015 00
		OUT*XX	011610	5012 00
		0*CKWD+1	011611	017102
		0*CKWD	011612	017101
		OUTOV*XX	011613	5026 00
CHANGE 7		ENTAU*CHAN+10	011614	10 7205
		RJP*DELAY	011615	70 0314
		ENTAL*PIN	011616	12 7046
		JPALZ*L0K+3	011617	61 1022
		ENTAU*AUTFCK	011620	10 1010
		IRJP*I0TAMAT	011621	30 7265
		N0=0P	011622	5047 00
		SKP0IN*XX	011623	5022 00
		JP*L0K+3	011624	34 1027
		ENTAL*L0K-2	011625	12 1023
CKADRA		IRJP*I0TAMAT	011626	30 7265
		ENTALB*CHTBL	011627	13 0000
		SLCL*KHMSK	011630	52 7212
		JPALNZ*CK0UU	011631	63 1036
		ENTALB*CHTBL	011632	13 0000
		LSHAL*01	011633	5046 01
		REF AIMAT		
		REF AIMAT		
	CK0UU	ADDALK*041	011634	71 0041
		JP*CK0UU+4	011635	34 1042
		ENTALB*CHTBL	011636	13 0000
		ADDALK*7767	011637	71 7767
		LSHAL*01	011640	5046 01
		ADDALK*241	011641	71 0241
		STRADR*L0K+2	011642	74 1044
		ENTSR*10	011643	5073 10
017001		ENTAL*ADR	011644	12 0000
		ENTSR*0	011645	5073 00

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
017003		STRAL*CCMADR	011646	44 7242
017004	CK0UV	CMAL*CKWD WAS CACW CHNGD AT ALL?	011647	02 7101
017005		JPEQ*SRCHCM NO, SRCH CM	011650	61 6454
017006		CMAL*CKWD+1 YES, WAS IT INCR?	011651	02 7102
017007		JPEQ*L0K+2 YES, CONTINUE	011652	61 1654
017010		IRJP*I0TAMAT REF AIMAT	011653	30 7265
017011		N0=0P	011654	5047 00
017012		N0=0P	011655	5047 00
017013		OUT0V*XX	011656	5026 00
017014		ENTAU*CHAN+16	011657	10 7205
017015		LSHAU*01	011660	5045 01
017016		JPAUP*L0K-1	011661	64 1660
017017		SKP0IN*XX	011662	5022 00
017020		JP*L0K+4 JP IF NOT TERM	011663	34 1667
017021		BJP*I013R CHECK ALL CHAN	011664	73 1537
017022		IJP*I013 EXIT	011665	55 1525
017023		RESERV*01	011666	000000
017024		ENTAU*CCMADR	011667	10 7242
017025		IRJP*I0TAMAT REF AIMAT	011670	30 7265
017026		N0=0P	011671	5047 00
017027	I014	0*0 ENTRY	011672	00 0000
017030		ENTAL*I014 STR ADDR8 TO RECYCLE	011673	12 1672
017031		ADDALK*7776 SUBTRACT 1 FROM ENTRY	011674	71 7776
017032		ENTSR*10 REF STK 0	011675	5073 10
017033		STRAL*SUTCFS STR IN AIMAT	011676	44 5400
017034		ENTSR*00 REF CURRENT STK	011677	5073 00
017035		ENTALK*I014	011700	70 1672
017036		STRAL*IFault	011701	44 7237
017037		RJP*TERMAL TERM ALL ACT	011702	76 6060
017040		RJP*STRMEM STR 1-377 IN 1-377	011703	76 7054
017041	FCODE	EXP*0 D0 EP BKWD W/COM	011704	5013 00

NAVSEA Op 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1471

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
017042		40*CKWDA	011705	40 7105
017043		40*CKWDA+1	011706	40 7106
017044		EXP0V*0	011707	5027 00
017045		ENTSR*10	011710	5073 10
017046		ENTAL*021 ENT CACW	011711	12 0021
017047		ENTSR*0	011712	5073 00
017050		STRAL*CCMADR SAVE CACW	011713	44 7242
017051		CMAL*CKWDA IACW DECRMED?	011714	02 7105
017052		JPEG*D0CDM YES, CK CDM	011715	01 1766
017053		N0-0P	011716	5047 00
017054		JP*FCODE2 NO JP TO STOP	011717	34 1736
017055		N0-0P	011720	5047 00
017056		N0-0P	011721	5047 00
017057		N0-0P	011722	5047 00
017058		N0-0P	011723	5047 00
017061		N0-0P	011724	5047 00
017062		N0-0P	011725	5047 00
017063		N0-0P	011726	5047 00
017064		N0-0P	011727	5047 00
017065		N0-0P	011730	5047 00
017066		N0-0P	011731	5047 00
017067		N0-0P	011732	5047 00
017070		N0-0P	011733	5047 00
017071	JP1	N0-0P	011734	5047 00
017072		N0-0P	011735	5047 00
017073	FCODE2	ENTAL*N00P1 TEST STP 1 AND 3	011736	12 7267
017074		CMAL*JP1+1	011737	02 1735
017075		JPEG*L0K+3 JP ERR HAS NOT BEEN USED	011740	01 1743
017076		ENTAL*CCMADR RESTR AL VALUE	011741	12 7242
017077		IRJP*I0TRUNT REF RUNENT	011742	30 7266
017100		CMAL*JP3+1	011743	02 1765

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CHANGE 7

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0253
017101		JPEQ*L0K+3	011744	61 1747		
017102		ENTAL*CCMADR	011745	12 7242		
017103		IRJP*I0TRUNT	011746	30 7266		
017104		ENTAL*CCMADR	011747	12 7242		
017105	JP2	IRJP*I0TAMAT	011750	30 7265		
017106		N0=0P	011751	0047 00		
017107		N0=0P	011752	0047 00		
017110		N0=0P	011753	0047 00		
017111		N0=0P	011754	0047 00		
017112		N0=0P	011755	0047 00		
017113		N0=0P	011756	0047 00		
017114		N0=0P	011757	0047 00		
017115		N0=0P	011760	0047 00		
017116		N0=0P	011761	0047 00		
017117		N0=0P	011762	0047 00		
017120		N0=0P	011763	0047 00		
017121	JP3	N0=0P	011764	0047 00		
017122		N0=0P	011765	0047 00		
017123	D0CDM	ENTAL*N00P1	011766	12 7267		
017124		CMAL*JP1+1	011767	02 1735		
017125		JPEQ*L0K+3	011770	01 1773		
017126		ENTAL*CCMADR	011771	12 7242		
017127		IRJP*I0TRUNT	011772	30 7266		
017130		CMAL*JP2+1	011773	02 1731		
017131		JPEQ*L0K+3	011774	01 1777		
017132		ENTAL*CCMADR	011775	12 7242		
017133		IRJP*I0TRUNT	011776	30 7266		
017134		CMAL*JP3+1	011777	02 1765		
017135		JPEQ*L0K+3	012000	01 2003		
017136		ENTAL*CCMADR	012001	12 7242		
017137		IRJP*I0TRUNT	012002	30 7266		

CHANGE 7 8-1473

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEGNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1474	017140	SKPFIN*0 DID EF TERM PREMATURE	012003	0023 00
	017141	JP*L0K+2 NO CONTINUE	012004	34 2000
	017142	JP*DSPLY YES, JP TO STOP	012005	34 2005
	017143	OUT*0 NO, CONTINUE	012006	0012 00
	017144	40*CKWD D0 OUT W/CDM AND BKWD	012007	40 7101
CHANGE 7	017145	40*CKWD+1	012010	40 7102
	017146	OUTOV*0 FORCE	012011	0026 00
	017147	ENTAU*CHAN+10 DLY TO ALLOW TIME FOR FALSE	012012	10 7205
	017150	RJP*DELAY TERM AND/OR EARLY CDM	012013	76 0314
	017151	SKP0IN*0 FALSE TERM?	012014	0022 00
	017152	JP*L0K+2 NO, CONTINUE	012015	34 2017
	017153	JP*DSPLY1 YES	012016	34 2071
	017154	ENTSR*10 STACK 0	012017	0073 10
	017155	ENTAL*41	012020	12 0041
	017156	ENTSR*0 CURR STACK	012021	0073 00
	017157	CMAL*CKWDA EARLY CDM?	012022	00 7100
	017160	JPEG*L0K+2 YES	012023	01 2025
	017161	JP*L0K+2 NO, CONTINUE	012024	34 2026
	017162	IRJP*I0TAMAT REF AIMAT	012025	30 7205
	017163	OUTOV*0	012026	0026 00
	017164	ENTAU*CHAN+10	012027	10 7205
	017165	RJP*DELAY	012030	76 0314
	017166	SKP0IN*0 DID CDM LOAD NEW BCW, CONT ACT?	012031	0022 00
	017167	JP*L0K+7 STILL ACT, CONTINUE	012032	34 2041
	017170	ENTAL*TWLV10 INACT, CK 1210 MODE	012033	12 7120
	017171	JPALNG*EXIT EXIT IF 1210 MODE (NO CDM)	012034	07 2070
	017172	ENTSR*10 REF STACK 0	012035	0073 10
	017173	ENTAU*20 DSPLY CDM AND OUT BCW	012036	10 0020
	017174	ENTAL*40	012037	12 0040
	017175	IRJP*I0TAMAT REF AIMAT	012040	30 7205
	017176	NO=0P	012041	0047 00



SEGN0	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0255
017177		ENTAL*TWLV18 CK 1218 M0DE	012042	12 7126		
017200		JPALP*L0K*6 CONTINUE IF 1219 M0DE	012043	65 2051		
017201		ENTSR*10 DSPLY 0UT AND CDM	012044	5073 10		
017202		ENTAU*20 BCW REG AND ST0P	012045	10 0020		
017203		ENTAL*40	012046	12 0040		
017204		IRJP*I0TAMAT 1218 M0DE BUT STILL CDM ACTION	012047	30 7265		
017205		N0=0P	012050	5047 00		
017206		ENTSR*10 STACK 0	012051	5073 10		
017207		ENTAL*41 CK IACW	012052	12 0041		
017210		ENTSR*0 THIS STACK	012053	5073 00		
017211		CMAL*CKWDA WAS CDM IACW M0VED?	012054	02 7105		
017212		JPEQ*L0K*2 YES, CK 7ACW	012055	61 2057		
017213		RJP*PEEK N0, FIND BCW STR L0K	012056	76 2077		
017214		ENTSR*10	012057	5073 10		
017215		ENTAL*40 CK TACW	012060	12 0040		
017216		ENTSR*0	012061	5073 00		
017217		CMAL*CKWDA WAS TACW M0VED?	012062	02 7105		
017220		JPEQ*EXIT YES, EXIT	012063	61 2075		
017221		RJP*PEEK N0, FIND IT	012064	76 2077		
017222	DSPLY	ENTSR*10	012065	5073 10		
017223		ENTAU*20	012066	10 0020		
017224		IRJP*I0TAMAT REF AIMAT	012067	30 7265		
017225		N0=0P	012070	5047 00		
017226	DSPLY1	ENTSR*10	012071	5073 10		
017227		ENTAU*20	012072	10 0020		
017230		IRJP*I0TAMAT REF AIMAT	012073	30 7265		
017231		N0=0P	012074	5047 00		
017232	EXIT	IJP*I014	012075	55 1672		
017233		RESERV*1	012076	000000		
017234	PEEK	0*0	012077	00 0000		
017235		ENTSR*0	012100	5073 00		

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NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1476		ENTAL*PEEK STR ADDRS TO RECYCLE	012101	12 2077
		ADDALK*7776 SUBTRACT 1 FROM ENTRY	012102	71 7776
		ENTSR*10 REF STK 0	012103	5073 10
		STRAL+SUTCFS STR IN AIMAT	012104	44 5400
		ENTSR*00 REF CURRENT STK	012105	5073 00
CHANGE 7		ENTICR*03 B3	012106	5072 03
		ENTBK*677	012107	36 0677
		ENTSR*10 REF STACK 0	012110	5073 10
	CKER	ENTALB*0 CK ADDR 0-677 FOR CKWDA	012111	13 0000
		ENTSR*00 REF THIS STACK	012112	5073 00
		CMAL*CKWDA BCW STORED HERE?	012113	02 7105
		JPEQ*CKNORM YES, CK IF THIS IS THE NORM LOK	012114	01 2120
		BJP*CKER=1 NO,CK NEXT ADDR	012115	73 2110
		ENTAU*PEEK MAIN P	012116	10 2077
		IRJP*I0TAMAT REF AIMAT	012117	30 7265
	CKNORM	STRB*PIN	012120	42 7046
		ENTAL*PIN ENT ADR BEING CKD	012121	12 7046
	CMAL*CDMICH IS ADR 21 BEING CKD?	012122	02 2134	
	JPEQ*L0K+5 IF YES , CONTINUE	012123	01 2130	
	CMAL*CDMTCH IS ADR 20 BEING CKD ?	012124	02 2133	
	JPEQ*L0K+3 IF YES , CONTINUE	012125	01 2130	
	ENTAU*PEEK DISPLAY MAIN PEEK	012126	10 2077	
	IRJP*I0TAMAT REF AIMAT	012127	30 7265	
	BJP*CKER=1 CK NEXT ADR	012130	73 2110	
	IRJP*I0TAMAT REF AIMAT	012131	30 7265	
	N0=0P	012132	5047 00	
	0*20 CDM IACW REG CH 0	012133	00 0020	
CDMTCH	0*21 CDM IACW REG CH 1	012134	00 0021	
CDMICH	0*0 ENTRY	012135	00 0000	
I016				
	ENTAL*I016 STR ADDRS TO RECYCLE	012136	12 2135	
	ADDALK*7776 SUBTRACT 1 FROM ENTRY	012137	71 7776	

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
017275		ENTSR*10 REF STK 0	012140	5073 10
017276		STRAL*SUTCFS STR IN AIMAT	012141	44 5400
017277		ENTSR*00 REF CURRENT STK	012142	5073 00
017300		ENTALK*I016	012143	70 2135
017301		STRAL*IFALT	012144	44 7237
017302		RJP*REICR SET B2	012145	76 6400
017303		CL*FAULTI	012146	40 7236
017304		CL*ALERDS	012147	40 7124
017305	I016R	RJP*STINK STORE STOPS IN CM	012150	76 6772
017306		ENTICR*02	012151	5072 02
017307		ENTALK*IRJPAT MODIFY STR INT RTN	012152	70 6767
017310		STRADR*STRINB	012153	74 2713
017311		ENTALK*140	012154	70 0140
017312		STRADR*STRINA+2	012155	74 2704
017313		ENTALK*340	012156	70 0340
017314		STRADR*STRINB-2	012157	74 2711
017315		RJP*STRINT STR IRJP*AURIL IN CM	012160	76 2676
017316	I016D	ENTALB*CHTBL CHAN NO	012161	13 0000
017317		ENTAU*U12MSK PRESTR CHAN NO	012162	10 7111
017320		SLSU*I016E	012163	04 2173
017321		STRAL*I016E	012164	44 2173
017322		SLSU*I016E+3	012165	04 2176
017323		STRAL*I016E+3	012166	44 2176
017324		ENTAU*ALERDS DSPLY ERR IN CASE STINK STOP	012167	10 7124
017325		RIL ENBL ALL INT	012170	5030 00
017326		IJPEI*L0K+1 ENBL INT	012171	54 2172
017327		0*I016E	012172	012173
017330	I016E	OUT*XX	012173	5012 00
017331		00*FALADR	012174	60 7706
017332		00*FALADR	012175	60 7706
017333		OUT0V*XX	012176	5026 00

CHANGE 7

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SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1478		017334 ENTAL*CHAN+16 ALLOW TERM TIME	012177	12 7205
		017335 LSHAL*01	012200	5046 01
		017336 JPALP*L0K=1	012201	65 2200
		017337 RJP*RCORD0 NOTE ANY INT NOT HNRD	012202	76 6166
	I016A	017340 BJP*I016R	012203	73 2150
CHANGE 7		017341 RJP*REICR RESET B2	012204	76 6400
		017342 RJP*CLCWAR	012205	76 6120
		017343 RJP*STINK STR STOPS IN CM	012206	76 6772
		017344 ENTALK*JPEF STR JP IN CM	012207	70 2250
		017345 STRADR*STRINB	012210	74 2713
		017346 ENTALK*120	012211	70 0120
		017347 STRADR*STRINA+2	012212	74 2704
		017350 ENTALK*320	012213	70 0320
		017351 STRADR*STRINB=2	012214	74 2711
		017352 RJP*STRINT STR IRJP*EFSIL IN CM	012215	76 2676
	I016F	017353 RIL ENBL ALL INT	012216	5030 00
		017354 IJPEI*L0K+1 ENBL INT	012217	54 2220
		017355 0*I016F+3	012220	012221
		017356 ENTALB*CHTBL CHAN N0	012221	13 0000
		017357 ENTAU*U12MSK	012222	10 7111
		017360 SLSU*I016G PRESTR CHAN N0	012223	04 2227
		017361 STRAL*I016G	012224	44 2227
		017362 SLSU*I016G+5	012225	04 2234
		017363 STRAL*I016G+5	012226	44 2234
	I016G	017364 EXP*XX	012227	5013 00
		017365 00*FALADR	012230	60 7706
		017366 00*FALADR	012231	60 7706
		017367 ENTAU*ALERDS DSPLY ERR IN CASE STINK STOP	012232	10 7124
		017370 ENTAL*FAULTI	012233	12 7236
		017371 EXP0V*XX	012234	5027 00
		017372 SKP*0 ALLOW TERM TIME	012235	5050 00

SEGNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0259
017373		SKP*0	012236	5050 00		
017374		SKP*0	012237	5050 00		
017375		RJP*RCORDF	012240	76 0175		
017376	I010B	BJP*I010A+2 D0 ALL CHAN	012241	73 2205		
017377		ENTAU*FAULTI DSPLY EF M0N ERR	012242	10 7236		
017400		ENTAL*ALERDS DSPLY 0UT M0N ERR	012243	12 7124		
017401		JPALNZ*L0K+2 CK ERR(0UT<	012244	03 2246		
017402		JPAUZ*L0K+2 CK ERR(EF<	012245	00 2247		
017403		IRJP*I0TAMAT REF AIMAT	012246	30 7265		
017404		IJP*I010 N0 - EXIT	012247	55 2135		
017405	JPEF	IJP*JPEFL	012250	55 7767		
017406	JPEFM	JP*I010B EXIT	012251	34 2241		
017407		RESERV*1	012252	000000		
017410	RLJPEI	0*0 ENT	012253	00 0000		
017411		ENTAL*RLJPEI STR ADDRS T0 RECYCLE	012254	12 2253		
017412		ADDALK*7776 SUBTRACT 1 FROM ENTRY	012255	71 7776		
017413		ENTSR*10 REF STK 0	012256	5073 10		
017414		STRAL*SUTCFS STR IN AIMAT	012257	44 5400		
017415		ENTSR*00 REF CURRENT STK	012260	5073 00		
017416		ENTALK*RLJPEI	012261	70 2253		
017417		STRAL*IFAUULT	012262	44 7237		
017420		RJP*M0NINT CL INT	012263	76 7007		
017421		SIL L0K0 INT	012264	5034 00		
017422		SXL	012265	5036 00		
017423		ENTAL*ZR0M0N=1 PREP M0N INT REG	012266	12 2343		
017424		ENTSR*10	012267	5073 10		
017425		STRAL*140	012270	44 0140		
017426		STRAL*144	012271	44 0144		
017427		ENTSR*0	012272	5073 00		
017430		0UT*0 0UT W/M0N CHAN 0	012273	5012 00		
017431		2*CKWD	012274	217101		

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7

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CHANGE 7

SEGN0	LABEL	STATEMENT	ADDRESS	INSTRUCT
017432		2*CKWD	012275	217101
017433		OUT*2 OUT W/MON CHAN 2	012276	5012 02
017434		2*CKWDA	012277	217105
017435		2*CKWDA	012300	217105
017436		OUTOV*2 FORCE CHAN 2	012301	5026 02
017437		RIL REL LOK0	012302	5030 00
017440		ENTAU*CHAN+16 DELAY	012303	10 7205
017441		LSHAU*01	012304	5045 01
017442		JPAUP*L0K-1	012305	64 2304
017443		CMAL*L0MSK WAS MON HONORED?	012306	02 7112
017444		JPEQ*A0K-1 YES, JP	012307	61 2317
017445		IJPEI*L0K+1 NO, DOES IJPEI REL LOK0?	012310	54 2311
017446		0*L0K+1	012311	012312
017447		ENTAU*CHAN+16 DELAY	012312	10 7205
017450		LSHAU*01	012313	5045 01
017451		JPAUP*L0K-1	012314	64 2313
017452		ENTAU*ZR0M0N DISPLAY P	012315	10 2344
017453		IRJP*I0TAMAT REF AIMAT	012316	30 7265
017454		ENTALK*0	012317	70 0000
017455	A0K	OUTOV*0 FORCE OTHER CHAN	012320	5026 00
017456		ENTAU*CHAN+16 DELAY	012321	10 7205
017457		LSHAU*01	012322	5045 01
017460		JPAUP*L0K-1	012323	64 2322
017461		CMAL*L0MSK DID PREVIOUS INT KEEP LOK0?	012324	02 7112
017462		JPN0T*L0K+3 JP IF YES	012325	63 2330
017463		ENTAU*ZR0M0N DISPLAY P	012326	10 2344
017464		IRJP*I0TAMAT REF AIMAT	012327	30 7265
017465		IJPEI*L0K+1 TRY IJPEI REL OF LOK0	012330	54 2331
017466		0*L0K+1	012331	012332
017467		ENTAU*CHAN+16 DELAY	012332	10 7205
017470		LSHAU*01	012333	5045 01

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0261
017471		JPAUP*L0K-1	012334	64	2333	
017472		CMAL*L0MSK WAS M0N H0N0RED?	012335	02	7112	
017473		JPEQ*L0K+2 YES, CONTINUE	012336	61	2340	
017474		IRJP*I0YAMAT REF AIMAT	012337	30	7265	
017475		RJP*CKF0RC CK F0RC L0K0 0F INT	012340	76	2354	
017476		IJP*RLJPEI EXIT	012341	55	2253	
017477		RESERV*1	012342		000000	
017500		IRJP*ZR0L	012343	30	7710	
017501	ZR0M0N	0*0 ENT	012344	00	0000	
017502		ENTAL*ZR0M0N STR ADDR8 T0 RECYCLE	012345	12	2344	
017503		ADDALK*7776 SUBTRACT 1 FR0M ENTRY	012346	71	7776	
017504		ENTSR*10 REF STK 0	012347	5073	10	
017505		STRAL*SUTCFS STR IN AIMAT	012350	44	5400	
017506		ENTSR*00 REF CURRENT STK	012351	5073	00	
017507		ENTAL*L0MSK ENT FLAG	012352	12	7112	
017510		IJP*ZR0M0N EXIT	012353	55	2344	
017511	CKF0RC	0*0 ENT	012354	00	0000	
017512		ENTALK*CKF0RC	012355	70	2354	
017513		STRAL*IFALT	012356	44	7237	
017514		RJP*M0NINT CL INT	012357	76	7007	
017515		SIL L0K0 INT	012360	5034	00	
017516		SXL	012361	5036	00	
017517		ENTAL*ZR0M0N-1 PREP INT ENT REG	012362	12	2343	
017520		ENTSR*10	012363	5073	10	
017521		STRAL*144	012364	44	0144	
017522		ENTSR*0	012365	5073	00	
017523		0UT*0 0UT CHAN 0	012366	5012	00	
017524		0*CKWD+3	012367		017104	
017525		0*CKWD	012370		017101	
017526		0UT*2 0UT CHAN 2 W/M0N	012371	5012	02	
017527		2*CKWDA	012372		217105	

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NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
017530		2*CKWDA	012373	217105
017531		OUTOV*2 FORCE CHAN 2 ONE WD W/MON	012374	5026 02
017532		ENTALK*0 CL AL	012375	70 0000
017533		RIL REL LOK0	012376	5030 00
017534		OUTOV*0 FORCE NON/MON CHAN MULTI=WORD	012377	5026 00
017535		OUTOV*0 FORCE 2D WD	012400	5026 00
017536		OUTOV*0 FORCE 3D WD	012401	5026 00
017537		CMAL*L6MSK DID FORCES MAINTAIN LOK0?	012402	02 7112
017540		JPN0T*L0K+3 JP IF YES AND CONTINUE	012403	03 2400
017541		ENTAU*ZR0M0N NO, DISPLAY P	012404	10 2344
017542		IRJP*I0TAMAT REF AIMAT	012405	30 7065
017543		SIL LOK0 INT	012406	5034 00
017544		RJP*H0NINT CL INT	012407	76 7007
017545		IJP*CKF0RC EXIT	012410	55 2354
017546	I015	0*0 ENTRY	012411	00 0000
017547		ENTAL*I015 STR ADDRS TO RECYCLE	012412	12 2411
017550		ADDALK*7776 SUBTRACT 1 FROM ENTRY	012413	71 7776
017551		ENTSR*10 REF STK 0	012414	5073 10
017552		STRAL*SUTCFS STR IN AIMAT	012415	44 5400
017553		ENTSR*00 REF CURRENT STK	012416	5073 00
017554		ENTALK*I015	012417	70 2411
017555		STRAL*IFALT	012420	44 7237
017556		CL*AUERDS	012421	40 7123
017557		CL*ALERDS	012422	40 7124
017560		CL*FAULTI	012423	40 7236
017561		RJP*JMPRD	012424	76 0321
017562		RJP*CLWAR	012425	76 0100
017563		RJP*STINK	012426	76 0772
017564		ENTALK*100	012427	70 0100
017565		STRAL*MNAREA	012430	44 7213

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

TABLE 8-73 PROGRAM LISTING



SEGNO	LABEL	STATEMENT	ADDRESS	PAGE	INSTRUCT	0263
017567		STRAL+MNAREA+1	012432	44	7214	
017570		ENTAL+IRJPEI	012433	12	6557	
017571		STRAL+MNADR	012434	44	7215	
017572		RJP+CMRJP	012435	76	6936	
017573		ENTALK*120	012436	70	6120	
017574		STRAL+MNAREA	012437	44	7213	
017575		ENTALK*320	012440	70	6320	
017576		STRAL+MNAREA+1	012441	44	7214	
017577		ENTAL+IRJPEF	012442	12	6563	
017600		STRAL+MNADR	012443	44	7215	
017601		RJP+CMRJP	012444	76	6936	
017602		ENTALK*140	012445	70	6140	
017603		STRAL+MNAREA	012446	44	7213	
017604		ENTALK*340	012447	70	6340	
017605		STRAL+MNAREA+1	012450	44	7214	
017606		ENTAL+IRJP0T	012451	12	6567	
017607		STRAL+MNADR	012452	44	7215	
017610		RJP+CMRJP	012453	76	6936	
017611		RJP+REICR	012454	76	6400	
017612	I015A	SIL	012455	0034	00	
017613		ENTALB+CHTBL	012456	13	0000	
017614		ENTAU+U12MSK	012457	10	7111	
017615		SLSU+I015B	012460	04	2467	
017616		STRAL+I015B	012461	44	2467	
017617		SLSU+I015C	012462	04	2474	
017620		STRAL+I015C	012463	44	2474	
017621		STRAL+I015E	012464	44	2505	
017622		SLSU+I015D	012465	04	2500	
017623		STRAL+I015D	012466	44	2500	
017624	I015B	EXP+XX	012467	5013	00	
017625		20+CKWDB	012470	20	7110	

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

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SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
017626		20*CKWDB	012471	20 7110
017627		ENTAL*ALERDS DSPLY ERR IF STINK ST0P	012472	12 7124
017630		RJP*DISP0C DSPLY ERR IF STINK ST0P	012473	76 6024
017631	I015C	EXF0V*XX	012474	5027 00
017632		ENTAU*CHAN+16	012475	10 7205
017633		LSHAU*01	012476	5045 01
017634		JPAUP*L0K-1	012477	64 2476
017635	I015D	0UT*XX	012500	5012 00
017636		20*CKWDB	012501	20 7110
017637		20*CKWDB	012502	20 7110
017640		ENTAL*ALERDS DSPLY ERR IF STINK ST0P	012503	12 7124
017641		RJP*DISP0C DSPLY ERR IF STINK ST0P	012504	76 6024
017642	I015E	0UT0V*XX	012505	5026 00
017643		ENTAU*CHAN+16	012506	10 7205
017644		LSHAU*01	012507	5045 01
017645		JPAUP*L0K-1	012510	64 2507
017646		BJP*I015A	012511	73 2455
017647		ENTAU*AUERDS	012512	10 7123
017650		ENTAL*ALERDS	012513	12 7124
017651		JPAUNZ*L0K+5	012514	62 2521
017652		JPALNZ*L0K+4	012515	63 2521
017653		ENTAU*FAULTI	012516	10 7236
017654		JPAUZ*L0K+4	012517	60 2523
017655		ENTAU*AUERDS	012520	10 7123
017656		RJP*DISP0C	012521	76 6024
017657		IRJP*I0TAMAT REF AIMAT	012522	30 7265
017660		RJP*H0NINT CL ALL MONIT0RS	012523	76 7007
017661		IJP*I015	012524	55 2411
017662		RESERV*1	012525	000000
017663	I017	0*0 ENTRY	012526	00 0000
017664		ENTAL*I017 STR ADDR8 T0 RECYCLE	012527	12 2526

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NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	PAGE	INSTRUCT	0265
017665		ADDALK*7776 SUBTRACT 1 FROM ENTRY	012530	71	7776	
017666		ENTSR*10 REF STK 0	012531	5073	10	
017667		STRAL*SUTCFS STR IN AIMAT	012532	44	5400	
017670		ENTSR*00 REF CURRENT STK	012533	5073	00	
017671		ENTALK*I017	012534	70	2526	
017672		STRAL*IFault	012535	44	7237	
017673		CL*AUERDS	012536	40	7123	
017674		RJP*REICR	012537	76	6400	
017675		RJP*STINK STR STP*41 IN CM	012540	76	6772	
017676		SIL SET L0K0	012541	5034	00	
017677		SXL	012542	5036	00	
017700		RJP*I017F SET INT ENT REG W/STOP	012543	76	2632	
017701	I017A	ENTALB*CHTBL PRESTORE CH NO	012544	13	0000	
017702		ENTAU*U12MSK	012545	10	7111	
017703		SLSU*I017B	012546	04	2570	
017704		STRAL*I017B	012547	44	2570	
017705		SLSU*I017B+3	012550	04	2573	
017706		STRAL*I017B+3	012551	44	2573	
017707		ENTICR*01 USE B1	012552	5072	01	
017710		ENTSR*10 REF STACK 0	012553	5073	10	
017711		ENTB*02 (B2< T0 B1	012554	32	0002	
017712		ENT0KB*7776 B1=1 TO B1	012555	37	7776	
017713		ENTSR*0 REF THIS STACK	012556	5073	00	
017714		RJP*I017F PRESET INT ENT REG	012557	76	2632	
017715		SIL	012560	5034	00	
017716		SXL	012561	5036	00	
017717	I017D	ENTALB*CHTBL ENT NEXT LOWER CHAN	012562	13	0000	
017720		ENTAU*U12MSK	012563	10	7111	
017721		SLSU*I017E	012564	04	2574	
017722		STRAL*I017E	012565	44	2574	
017723		SLSU*I017E+3	012566	04	2577	

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NAVEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEONO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1486		017724 STRAL*I017E+3	012567	44 2577
	I017B	017725 OUT*XX DO OUT W/MON	012570	5012 00
		017726 2*CKWD+1	012571	217102
		017727 2*CKWD+1	012572	217102
		017730 OUTOV*XX FORCE OUT ALL CHAN	012573	5026 00
CHANGE 7		017731 I017E OUT*XX OUT W/MONITOR	012574	5012 00
		017732 2*CKWD+1	012575	217102
		017733 2*CKWD+1	012576	217102
		017734 OUTOV*XX	012577	5026 00
		017735 ENTAL*CHAN+16	012600	12 7205
		017736 LSHAL*01	012601	5046 01
		017737 JPALP*L0K-1	012602	65 2601
		017740 RJP*STINK STR STP IN CM	012603	76 6772
		017741 ENTALK*CHANPS MODIFY STR RTN TO	012604	70 2651
		017742 STRADR*STRINB DETECT HNRNG L0 CHAN 1ST	012605	74 2713
		017743 ENTALK*140	012606	70 0140
		017744 STRADR*STRINA+2	012607	74 2704
		017745 ENTALK*340	012610	70 0340
		017746 STRADR*STRINB-2	012611	74 2711
		017747 RJP*STRINT L0 CHAN	012612	76 2676
		017750 ENTICR*02	012613	5072 02
		017751 ENTALK*CHANPR MODIFY STR RTN TO	012614	70 2643
		017752 STRADR*STRINB DETECT HNRNG HI CHAN 1ST	012615	74 2713
		017753 RJP*STRINT	012616	76 2676
		017754 ENTAU*AUERDS DSPLY ERR IF STINK STOP	012617	10 7123
	I017C	017755 RIL REMOVE L0K0	012620	5030 00
		017756 ENTAL*CHAN+16 MON INT SHOULD NOW	012621	12 7205
		017757 LSHAL*01 BE HONORED IN TURN	012622	5046 01
		017760 JPALP*L0K-1	012623	65 2622
		017761 ENTAU*AUERDS DSPLY CH NOT MON IN ORDER	012624	10 7123
		017762 ENTSR*10	012625	5073 10

TABLE 8-73 PROGRAM LISTING

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0267
017763		ENTAL*02 DSPLY UPPER CHAN	012626	12 0002		
017764		LSHAL*11 IN AL09-12	012627	5046 11		
017765		ADDAL*01 LOWER CHAN IN AL00-03	012630	14 0001		
017766		IRJP*I0TAMAT REF AIMAT	012631	30 7265		
017767	I017F	0*0 ENTRY	012632	00 0000		
017770		ENTALK*140 STR JP IN INT ENT REG	012633	70 0140		
017771		STRAL*MNAREA INT RTN HAS ERR STOP IN IT	012634	44 7213		
017772		ENTALK*340	012635	70 0340		
017773		STRAL*MNAREA+1	012636	44 7214		
017774		ENTAL*RJP0UT	012637	12 6424		
017775		STRAL*MNADR	012640	44 7215		
017776		RJP*CMRJP	012641	76 6036		
017777		IJP*I017F EXIT	012642	55 2632		
020000	CHANPR	IJP*CHNPRL	012643	55 7724		
020001	CHNPRM	ENTICR*01	012644	5072 01		
020002		RJP*H0NINT CL ALL INT	012645	76 7007		
020003		RJP*STINK STR STOPS IN CM	012646	76 6772		
020004		BJP*I017D-3 CK NEXT CHAN	012647	73 2557		
020005		JP*CKERR CK IF ANY ERR	012650	34 2657		
020006	CHANPS	IJP*CHNPSL	012651	55 7725		
020007	CHNPSM	ENTICR*01 USE B1	012652	5072 01		
020010		RJP*RC0RDI NO, NOTE ERROR	012653	76 6157		
020011		RJP*H0NINT CL INTS	012654	76 7007		
020012		RJP*STINK STR STOPS IN CM	012655	76 6772		
020013		BJP*I017D-3 CK NEXT CHAN	012656	73 2557		
020014	CKERR	ENTAU*AUERDS DSPLY ERR	012657	10 7123		
020015		JPAUZ*L0K+6 JP IF NO ERR	012660	60 2666		
020016		ENTSR*10	012661	5073 10		
020017		ENTAL*02 DSPLY UPPER CHAN	012662	12 0002		
020020		LSHAL*11 IN AL09-12	012663	5046 11		
020021		ADDAL*01 LOWER CHAN IN AL00-03	012664	14 0001		

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NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
020022		IRJP*I0TAMAT REF AIMAT	012665	30 7265
020023		ENTICR*02	012666	5072 02
020024		BJP*L0K+1 DECR UPPER CHAN CNT	012667	73 2670
020025		ENTSR*10 CK IF UPPER	012670	5073 10
020026		ENTAL*02 CHAN EQU	012671	12 0002
020027		ENTSR*0 ZERO	012672	5073 00
020030		JPALNZ*I017A=3 NO	012673	63 2541
020031		IJP*I017 YES, EXIT	012674	55 2526
020032		RESERV*1	012675	000000
020033	STRINT	0*0 ENT	012676	00 0000
020034		ENTALB*CHTBL	012677	13 0000
020035		SLCL*KHMSK CHAN 10-17?	012700	52 7212
020036		JPALNZ*L0K+5 YES	012701	63 2700
020037	STRINA	ENTALB*CHTBL NO	012702	13 0000
020040		LSHAL*01 2K	012703	5046 01
020041		ADDALK*XX BASE AREA + 2K INT REG	012704	71 0000
020042		JP*L0K+5	012705	34 2712
020043		ENTALB*CHTBL	012706	13 0000
020044		ADDALK*7707 K=10	012707	71 7767
020045		LSHAL*01 2(K=10<	012710	5046 01
020046		ADDALK*XX BASE AREA + 2(K=10< INT REG	012711	71 0000
020047		STRADR*L0K+3	012712	74 2715
020050	STRINB	ENTAL*CHANPR	012713	12 2643
020051		ENTSR*10	012714	5073 10
020052		STRAL*MNAREA STR INSTR IN INT ENT REG	012715	44 7213
020053		ENTSR*0	012716	5073 00
020054		IJP*STRINT EXIT	012717	55 2676
020055	I010	0*0 ENTRY	012720	00 0000
020056		ENTAL*I010 STR ADDRS TO RECYCLE	012721	12 2720
020057		ADDALK*7776 SUBTRACT 1 FROM ENTRY	012722	71 7776
020060		ENTSR*10 REF STK 0	012723	5073 10

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NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0269
020061		STRAL*SUTCFS STR IN AIMAT	012724	44 5400		
020062		ENTSR*00 REF CURRENT STK	012725	5073 00		
020063		ENTALK*I018	012726	70 2720		
020064		STRAL*IFALT	012727	44 7237		
020065		CL*AUERDS CL ERR STR LOK	012730	40 7123		
020066		RJP*REICR RESET B PER IOSIZE	012731	76 6400		
020067	I018R	RJP*STINK STORE STOPS IN CM	012732	76 6772		
020070		SIL LOKO INT	012733	5034 00		
020071		SXL	012734	5036 00		
020072		RJP*I017F SET INT REG FOR FALSE INT	012735	76 2632		
020073	I018C	ENTALB*CHTBL REF PROPER CHAN TBL	012736	13 0000		
020074		ENTAU*U12MSK 777700	012737	10 7111		
020075		SLSU*I018A MODIFY INSTR PER CHAN BEING DONE	012740	04 2750		
020076		STRAL*I018A	012741	44 2750		
020077		SLSU*I018B-1	012742	04 2754		
020100		STRAL*I018B-1	012743	44 2754		
020101		SLSU*I018B	012744	04 2755		
020102		STRAL*I018B	012745	44 2755		
020103		SLSU*I018B+4	012746	04 2761		
020104		STRAL*I018B+4	012747	44 2761		
020105	I018A	OUT*XX DO OUT W/MON HI CHAN 1ST	012750	5012 00		
020106		2*CKWD+1	012751	217102		
020107		2*CKWD+1	012752	217102		
020110		ENTAU*AUERDS DSPLY ERR IF STINK STOP	012753	10 7123		
020111		OUTOV*XX FORCE OUT	012754	5026 00		
020112	I018B	EXF*XX DO EF W/MON HI CHAN 1ST	012755	5013 00		
020113		2*CKWD+1	012756	217102		
020114		2*CKWD+1	012757	217102		
020115		ENTAU*AUERDS DSPLY ERR IF STINK STOP	012760	10 7123		
020116		EXFOV*XX FORCE EF	012761	5027 00		
020117		ENTAL*CHAN+16 ALLOW FALSE INT	012762	12 7205		

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TABLE 8-73 PROGRAM LISTING  
 NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
020120		LSHAL*01	012763	5046 01
020121		JPALP*L0K-1	012764	05 2763
020122		RJP*STINK STR STOPS IN CM	012765	76 6772
020123		ENTALK*PRIBAD MODIFY STR INT RTN TO	012766	70 3020
020124		STRADR*STRINB DETECT HONORING OUT 1ST	012767	74 2713
020125		ENTALK*140	012770	70 0140
020126		STRADR*STRINA+2	012771	74 2704
020127		ENTALK*340	012772	70 0340
020130		STRADR*STRINB-2	012773	74 2711
020131		RJP*STRINT STR IRJP*FPRIL1 IN CM	012774	76 2676
020132		ENTALK*PRI0K MODIFY STR INT RTN TO	012775	70 3010
020133		STRADR*STRINB DETECT HONORING EF 1ST	012776	74 2713
020134		ENTALK*120	012777	70 0120
020135		STRADR*STRINA+2	013000	74 2704
020136		ENTALK*320	013001	70 0320
020137		STRADR*STRINB-2	013002	74 2711
020140		RJP*STRINT STR IRJP*FPRIL IN CM	013003	76 2676
020141		ENTAU*AUERDS DSPLY ERR IF STINK STOP	013004	10 7123
020142		RIL	013005	5030 00
020143		ENTAL*CHAN+10 DLY TO LET MON INT IN	013006	12 7205
020144		LSHAL*01	013007	5046 01
020145		JPALP*L0K-1	013010	05 3007
020146		ENTAU*AUERDS DSPLY ERR STR IF MON INT IGNORED	013011	10 7123
020147		ENTSR*10	013012	5073 10
020150		ENTAL*02 DSPLY B2	013013	12 0002
020151		IRJP*I0TAMAT REF AIMAT	013014	30 7205
020152		N0=0P	013015	5047 00
020153	PRI0K	IJP*FPRIL	013016	05 7726
020154	FPRIM	JP*FPRIM1+1	013017	34 3022
020155	PRIBAD	IJP*FPRIL1	013020	05 7727
020156	FPRIM1	RJP*RCORDI	013021	76 0157

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NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING



SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0271
020157		RJP*H0NINT CL INTS	013022	76 7007		
020160		BJP*I018R D0 NEXT LOWER CH	013023	73 2732		
020161		ENTAU*AUERDS DSPLY ERRS	013024	10 7123		
020162		JPAUZ*L0K+3 EXIT IF N0 ERRS	013025	00 3030		
020163		ENTAL*I018A DSPLY F AND K	013026	12 2750		
020164		IRJP*I0TAMAT REF AIMAT	013027	30 7265		
020165		IJP*I010 EXIT	013030	55 2720		
020166		RESERV*1	013031	000000		
020167	WAITCK	0*0 ENT = CK WAIT FUNC	013032	00 0000		
020170		ENTAL*WAITCK STR ADDRS TO RECYCLE	013033	12 3032		
020171		ADDALK*7776 SUBTRACT 1 FROM ENTRY	013034	71 7776		
020172		ENTSR*10 REF STK 0	013035	5073 10		
020173		STRAL*8UTCFS STR IN AIMAT	013036	44 5400		
020174		ENTSR*00 REF CURRENT STK	013037	5073 00		
020175		ENTALK*WAITCK	013040	70 3032		
020176		STRAL*IFAUULT	013041	44 7237		
020177		RJP*H0NINT H0N INTS	013042	76 7007		
020200		ENTAL*IEINSR	013043	12 3055		
020201		ENTSR*10 REF STACK 0	013044	5073 10		
020202		STRAL*140 IRJP*WTINTL TO OUT H0N INT REG	013045	44 0140		
020203		ENTSR*0 REF THIS STACK	013046	5073 00		
020204		OUT*0 D0 OUT W/H0N CH 0	013047	5012 00		
020205		0*WAITCK	013050	013032		
020206		2*WAITCK	013051	213032		
020207		OUTOV*0 FORCE	013052	5020 00		
020210		WTFI WAIT FOR INT	013053	5024 00		
020211		ST0P*40 STP IF WAIT NOT FUNC	013054	5056 40		
020212	IEINSR	IJP*WTINTL	013055	55 7730		
020213	WTEINT	IJP*WAITCK EXIT	013056	55 3032		
020214		RESERV*1	013057	000000		
020215	CMPLK0	0*0 ENT	013060	00 0000		

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NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
020216		ENTAL*CMPLK0 STR ADDRS TO RECYCLE	013061	12 3060
020217		ADDALK*7776 SUBTRACT 1 FROM ENTRY	013062	71 7776
020220		ENTSR*10 REF STK 0	013063	5073 10
020221		STRAL*SUTCFS STR IN AIMAT	013064	44 5400
020222		ENTSR*00 REF CURRENT STK	013065	5073 00
020223		ENTALK*CMPLK0 SAVE FAULT ADDR	013066	70 3060
020224		STRAL*IFAUULT	013067	44 7237
020225		RJP*M0NINT CL INT	013070	76 7007
020226		SIL L0K0 INT	013071	5034 00
020227		SXL	013072	5036 00
020230		ENTAL*CMPINT=1 STR IRJP*CMPL*CMPINT	013073	12 3113
020231		ENTSR*10	013074	5073 10
020232		STRAL*140 IN OUT M0N INT REG	013075	44 0140
020233		ENTSR*0	013076	5073 00
020234		OUT*0 OUT W/M0N CHAN 0	013077	5012 00
020235		2*CKWD	013100	017101
020236		2*CKWD	013101	017101
020237		OUT0V*0	013102	5026 00
020240		RIL REL L0K0	013103	5030 00
020241		CMAL*L0K=1 G0 TO INT RTN IF SIL 0F	013104	02 3103
020242		JPALNZ*L0K+1 COMPARE NOT WORKG, OTHERWISE CONT	013105	03 3106
020243		JPALNZ*L0K+1 DLY	013106	03 3107
020244		SIL SET L0K0	013107	5034 00
020245		RJP*M0NINT CL INT	013110	76 7007
020246		IJP*CMPLK0 EXIT	013111	53 3000
020247		RESERV*1	013112	000000
020250		IRJP*CMPL	013113	30 7711
020251	CMPINT	0*0 ENT	013114	00 0000
020252		ENTAU*L0K=1 DSPLY FAULT ADDR	013115	10 3114
020253		IRJP*I0TAMAT REF AIMAT	013116	30 7265
020254		N0=0P	013117	5047 00

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NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
020255	EXFEIC	0*0 ENTRY	013120	00 0000
020256		ENTAL*EXFEIC STR ADDRS TO RECYCLE	013121	12 3120
020257		ADDALK*7776 SUBTRACT 1 FROM ENTRY	013122	71 7776
020260		ENTSR*10 REF STK 0	013123	5073 10
020261		STRAL*8UTCFS STR IN AIMAT	013124	44 5400
020262		ENTSR*00 REF CURRENT STK	013125	5073 00
020263		ENTAL*EXFEIC FLAG THIS ROUTINE	013126	12 3120
020264		STRAL*IFAUULT IN IFAULT/IN CASE OF FAULT	013127	44 7237
020265		RJP*TERMAL	013130	76 6060
020266		RJP*H0NINT	013131	76 7007
020267		RIL ENABLE INTS	013132	5030 00
020270		ENTICR*03 03*0 TO INITIALIZE	013133	5072 03
020271		ENTBK*00 ERROR RECORD ROUTINE	013134	36 0000
020272		CL*ALERDS	013135	40 7124
020273		CL*PLACS	013136	40 4623
020274		RJP*STINK	013137	76 6772
020275		RXL ENABLE EIS	013140	5032 00
020276		ENTAU*CHAN+10 WAIT TO	013141	10 7177
020277		LSHAU*01 RECEIVE ANY	013142	5045 01
020300		JPAUP*L0K-1 FALSE EIR/EFA	013143	64 3142
020301	AUTS1	OUT*KH SET UP TO TEST	013144	5012 00
020302		0*CKWD+2 THAT IDA/0DR	013145	017103
020303		0*CKWD+1 IS LOCKED OUT BY	013146	017102
020304		RJP*TERMAL LACK OF OUTPUT ACTIVE	013147	76 6060
020305	ACKOUT	IN*KH PREP TO SEE IF	013150	5011 00
020306		0*PIN 0DA RATHER THAN	013151	0170 6
020307		0*PIN EFA IS SENT H	013152	0170 6
020310	AUTS	OUT*KL SET UP TO DETECT	013153	5012 00
020311		0*CKWD IDA RETURNED 0N	013154	017101
020312		0*CKWD WRONG CHAN	013155	017101
020313		ENTALK*7777 RECORD ERROR IN FALSE CHAN	013156	70 7777

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1493

SEGNU	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1494		020314 ENTAL*HEIP 100+2KH	013157	12 7232
		020315 STRADR*ZAAA+2 AT PR0G	013160	74 3176
		020316 STRADR*800DRP+1 ISOL ROUTINE	013161	74 3402
		020317 ADDALK*01 101+2KH	013162	71 0001
		020320 STRADR*CLADR+2	013163	74 3664
CHANGE 7		020321 STRADR*DATARQ TO EXAM EI DATA	013164	74 3220
		020322 STRADR*800DRP+2 TO ISOL ROUTINE	013165	74 3403
		020323 ADDALK*7775 101 OR 301 +2(KH-1)	013166	71 7775
		020324 STRADR*ESDATQ ESI EI HANDLING	013167	74 3240
		020325 ENTAL*H0BCP 41+2KH	013170	12 7230
		020326 ADDALK*01 TO CHECK 0DR	013171	71 0001
		020327 STRADR*ACTL0K LOCKOUT BY ACTIVE NOT	013172	74 3226
		020330 RJP*CLADR	013173	76 3662
	ZAAA	020331 ENTAL*EI0KH=1 RJP TO INT ROUTINE	013174	12 3405
		020332 ENTSR*10	013175	5073 10
		020333 STRAL*ADR AT 100+2KH	013176	44 0000
		020334 ENTSR*00	013177	5073 00
		020335 ENTAU*AUERDS DISPLAY FLAGS IN	013200	10 7123
		020336 ENTAL*ALERDS CASE OF FALSE INT ENT	013201	12 7124
	EIKH	020337 EXP*KH EXP,FWD,1WD	013202	5013 00
		020340 0*SDRP+1 DATA IS JP	013203	013401
		020341 0*SDRP IF 800 DROPPED	013204	013400
		020342 EXP0V*KH SEND EPA/EIR	013205	5027 00
		020343 LSHAL*00 WAIT	013206	5046 00
		020344 LSHAU*00 TO RECEIVE	013207	5045 00
		020345 RSHAL*00 EI KH	013210	5042 00
		020346 RSHAU*00 N00PS	013211	5041 00
		020347 LSHA*00	013212	5047 00
		020350 RSHA*00	013213	5043 00
		020351 SKP*00	013214	5050 00
		020352 RJP*RC0RD0 RECORD ERROR=EIKH NOT RCVD,0	013215	76 6166

TABLE 8-73 PROGRAM LISTING

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0275
020353		ENTBKB*01 ADV COUNT	013216	37 0001		
020354		ENTSR*10	013217	5073 10		
020355	DATARG	ENTAL*ADR EXAM 101+2KH	013220	12 0000		
020356		ENTSR*00	013221	5073 00		
020357		JPALNZ*L0K+2 EIR(DATA< RCVD?	013222	63 3224		
020360		RJP*RCORD0 RECORD ERROR=EIR (DATA<NOT RCVD,1	013223	76 6166		
020361		ENTBKB*01 ADV COUNT	013224	37 0001		
020362		ENTSR*10	013225	5073 10		
020363	ACTL0K	ENTAL*ADR 41+2KH#CACW	013226	12 0000		
020364		ENTSR*00	013227	5073 00		
020365		CMAL*CKWD+1 DID 0DR/IDA GET THRU?	013230	02 7102		
020366		JPEG*L0K+2 NO= CONTINUE	013231	61 3233		
020367		IRJP*I0TAMAT REF AIMAT	013232	30 7265		
020370		NO=0P	013233	5047 00		
020371	TESTAK	SKP0IN*KL WAS IDA RETURNED ON WRONG K?	013234	5022 00		
020372		JP*L0K+2 NO=CONTINUE	013235	34 3237		
020373		IRJP*I0TAMAT REF AIMAT	013236	30 7265		
020374		ENTSR*10	013237	5073 10		
020375	ESDATG	ENTAL*ADR (101 OR 301+2(KH=1<<	013240	12 0000		
020376		ENTSR*00	013241	5073 00		
020377		CMAL*ST0PAA #505640?	013242	02 7250		
020400		JPEG*L0K+3 YES = CONT	013243	61 3246		
020401		STRAL*PLAC0 SAVE ERRONEOUS DATA	013244	44 4623		
020402		RJP*RCORD0 RECORD ERROR=EI WAS DUAL/ESI/ESA,2	013245	76 6166		
020403		ENTBKB*01 ADV COUNT	013246	37 0001		
020404	WACKQ	SKPIIN*KH WAS 0DA SENT ON KL LINE?	013247	5021 00		
020405		SKP*40 NO=CONTINUE	013250	5050 40		
020406		RJP*RCORD0 RECORD ERROR=0DA SENT KH,3	013251	76 6166		
020407		ENTBKB*01 ADV COUNT	013252	37 0001		
020410		RJP*STINK	013253	76 6772		
020411	AUTS3	0UT*KL SET UP TO TEST	013254	5012 00		

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7

8-1495

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1496		0*CKWD+2 THAT IDA/0DR	013255	017103
		0*CKWD+1 IS LOCKED OUT BY	013256	017102
		RJP*TERMAL LACK OF OUT ACTIVE	013257	76 0000
	ACKAUT	IN*KL PREP TO SEE IF	013260	5011 00
		0*PIN ODA RATHER THAN	013261	017046
CHANGE 7		0*PIN EFA IS SENT KL	013262	017046
	AUTS2	OUT*KH SET UP TO DETECT	013263	5012 00
		0*CKWD IDA RETURNED ON	013264	017101
		0*CKWD WRONG CHAN	013265	017101
		ENTAL*LEIP 100+2KL	013266	12 7223
		STRADR*ZAAB+2 AT PR0G	013267	74 3305
		STRADR*S00DRP+1 ISOL ROUTINE	013270	74 3402
		ADDALK*01 101+2KL	013271	71 0001
		STRADR*CLADR+2	013272	74 3664
		STRADR*DAREQ TO EXAM EI DATA	013273	74 3327
		STRADR*S00DRP+2 TO ISOL ROUTINE	013274	74 3403
		ADDALK*7775 101+2(KL=1<	013275	71 7775
		STRADR*DAREQ ESI EI HANDLING	013276	74 3347
		ENTAL*L0BCP 41+2KL	013277	12 7221
		ADDALK*01 TO CHECK 0DR	013300	71 0001
		STRADR*ACTLOC LOCKOUT BY ACTIVE NOT	013301	74 3335
		RJP*CLADR	013302	76 3662
	ZAAB	ENTAL*EI0KL=1 RJP TO INT RTN	013303	12 3412
		ENTSR*10	013304	5073 10
		STRAL*ADR AT 100+2KL	013305	44 0000
		ENTSR*00	013306	5073 00
		ENTAU*AUERDS DISPLAY	013307	10 7123
		ENTAL*ALERDS FLAGS	013310	12 7124
	EIKL	EXF*KL EXP,FWD,1WD	013311	5013 00
		0*SDRP+1 DATA IS JP	013312	013401
		0*SDRP IF S00 DROPPED	013313	013400

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0277
020451		EXFOV*KL SEND EPA/EIR	013314	5027 00		
020452		LSHAL*00 WAIT	013315	5046 00		
020453		RSHAL*00 TO RECEIVE	013316	5042 00		
020454		LSHAU*00 EI KL	013317	5045 00		
020455		RSHAU*00 NOOPS	013320	5041 00		
020456		LSHA*00	013321	5047 00		
020457		RSHA*00	013322	5043 00		
020460		SKP*00	013323	5050 00		
020461		RJP*RCORD0 RECORD ERROR=EIKL NOT RTVD,4	013324	76 0100		
020462		ENTBKB*01 ADV COUNT	013325	37 0001		
020463		ENTSR*10	013326	5073 10		
020464	DATREQ	ENTAL*ADR EXAM 101+2KL	013327	12 0000		
020465		ENTSR*00	013330	5073 00		
020466		JPALNZ*L0K+2 EIR (DATA< RCVD?	013331	63 3333		
020467		RJP*RCORD0 RECORD ERROR=DATA NOT RCVD,5	013332	76 0100		
020470		ENTBKB*01 ADV COUNT	013333	37 0001		
020471		ENTSR*10	013334	5073 10		
020472	ACTLOC	ENTAL*ADR 41+2KL#CACW	013335	12 0000		
020473		ENTSR*00	013336	5073 00		
020474		CMAL*CKWD+1 DID ODR/IDA GET THRU?	013337	32 7102		
020475		JPEQ*L0K+2 NO CONTINUE	013340	61 3342		
020476		IRJP*I0TAMAT REF AIMAT	013341	30 7265		
020477		N0=0P	013342	5047 00		
020500	TESTAC	SKP0IN*KH WAS IDA RETURNED ON WRNG K?	013343	5022 00		
020501		JP*L0K+2 NO = CONTINUE	013344	34 3346		
020502		IRJP*I0TAMAT REF AIMAT	013345	30 7265		
020503		ENTSR*10	013346	5073 10		
020504	DATQES	ENTAL*ADR (101+2(KL=1<<#	013347	12 0000		
020505		ENTSR*00	013350	5073 00		
020506		CMAL*STOPAA #505040?	013351	02 7250		
020507		JPEQ*L0K+3 YES=CONT	013352	61 3355		

CHANGE 7 8-1497

TABLE 8-73 PROGRAM LISTING  
NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
020510		STRAL*PLAC8	013353	44 4623
020511		RJP*RCORD8 RECORD ERROR=EI WAS DUAL/ESI/ESA,6	013354	76 6166
020512		ENTBKB*01 ADV COUNT	013355	37 0001
020513	QACK	SKPIIN*KL WAS ODA SENT ON KL LINE?	013356	5021 00
020514		SKP*40 NO=CONTINUE	013357	5050 40
020515		RJP*RCORD8 RECORD ERROR=ODA SENT KL,7	013360	76 6166
020516		ENTBKB*01 ADV COUNT	013361	37 0001
020517		ENTAL*ALERDS ANY EI CONTROL ERRS?	013362	12 7124
020520		JPALZ*FALSEI NO = CHECK FOR FALSE EIS	013363	61 3378
020521		RJP*INOBAS GATHER IN/OUT CONTROL DATA	013364	76 3420
020522		RJP*LOCK08 GATHER LOCKOUT CONTROL DATA	013365	76 3527
020523		ENTAU*FAULTI DISPLAY LOCKOUT DATA	013366	10 7236
020524		ENTAL*PLAC8 DISPLAY BAD DATA OF	013367	12 4623
020525		STRAL*FAULTI LAST CHAN W/DUAL EI DETECT	013370	44 7236
020526		RJP*DISP0C ON THE C REG	013371	76 6024
020527		ENTAL*ALERDS DISPLAY EXFEIC+INOBAS DATA	013372	12 7124
020530		IRJP*IDTAMAT REF AIMAT	013373	30 7265
020531		NO=0P	013374	5047 00
020532		REMARK*AL CONTAINS BIT SET FOR ERROR		
020533		REMARK* 0,4 IF EIM NOT RECEIVED KH,KL		
020534		REMARK* 1,5 IF EI DATA NOT RCVD KH,KL		
020535		REMARK* 2,6 IF EI IN DUAL+ESI+ESA MODE KH,KL		
020536		REMARK* 3,7 IF ODA INSTEAD OF EPA SENT KH,KL		
020537		REMARK* 8,12 IF INPUT ACT NOT TERM KH,KL		
020540		REMARK* 9,13 IF ODA/IDR SENT ON OTHER CHAN (KH,KL<		
020541		REMARK*10,14 IF IDA RETURNED ON OTHER CHAN		
020542		REMARK*11,15 IF INPUT DATA NOT RCVD KH,KL		
020543		REMARK*AU CONTAINS LOCKOUT TEST DATA, SEE LOCK08		
020544		REMARK*C CONTAINS BAD DATA OF LAST CHAN W/DUAL ERR		
020545	FALSEI	RJP*LOCK08 TEST INT LOCKOUTS	013375	76 3667

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING



SEGNU	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0279
020546		IJP*EXFEIC EXIT	013376	55 3120		
020547		RESERV*1	013377	000000		
020550	SDRP	IJP*S0DRP 1ST EXP CODE	013400	55 7752		
020551	S00DRP	ENTSR*10	013401	5073 10		
020552		ENTAL*ADR (100+2K<	013402	12 0000		
020553		ENTAU*ADR (101+2K<	013403	10 0000		
020554		IRJP*I0TAMAT REF AIMAT	013404	30 7265		
020555		IRJP*EIKHA FOR INT ENT ADDR	013405	30 7765		
020556	EIKH	0*0 ENTRY	013406	00 0000		
020557		RIL RIL	013407	5030 00		
020560		ENTBKB*01 ADVANCE COUNT-EIKH RCVD	013410	37 0001		
020561		JP*DATARG=1 RETURN TO MAIN PR0G	013411	34 3217		
020562		IRJP*EIKLA FOR INT ENT ADDR	013412	30 7766		
020563	EIKL	0*0 ENTRY	013413	00 0000		
020564		RIL RIV	013414	5030 00		
020565		ENTBKB*01 ADV COUNT-EIKL RCVD	013416	37 0001		
020566		JP*DATREG=1 RETURN TO MN PR0G	013416	34 3326		
020567	T0FIV	252525 CONSTANT	013417	252525		
020570	IN0BAS	0*0 ENTRY	013420	00 0000		
020571		ENTALK*IN0BAS NOTIFY FAULT	013421	70 3420		
020572		STRADR*IFault ROUTINE	013422	74 7237		
020573		RJP*TERMAL	013423	70 0000		
020574		RJP*H0NINT	013424	70 7007		
020575		ENTICR*03 ALERDS FIRST 8 BITS	013425	5072 03		
020576		ENTBKB*10	013426	30 0010		
020577		RJP*CLPIN CLR INPUT AREA	013427	70 7036		
020600	T00UTS	0UT*KH 0UT ACT T0	013430	5012 00		
020601		0*CKWD+1 TEST KH 0DA AND	013431	017102		
020602		0*CKWD DATA,C REG	013432	017101		
020603		0UT*KL 0UT ACT 0N KL	013433	5012 00		
020604		0*CKWD+1 T0 TEST KL 0DA/IDA N0T.	013434	017102		

TABLE 8-73 PROGRAM LISTING

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

CHANGE 7 8-1499

SEGNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
020605		0*CKWD+1 ONE WD ON KH, KL	013435	017102
020606	T0INS	IN*KH NORMAL RECEIVING	013436	5011 00
020607		0*PIN CHAN, KH	013437	017046
020610		0*PIN ONE WD	013440	017046
020611		IN*KL IN ON KL	013441	5011 00
020612		0*PIN+2 T0 TEST FALSE	013442	017050
020613		0*PIN+2 ODA XMIT	013443	017050
020614	VER0UT	0UT0V*KH SEND KH ODA	013444	5026 00
020615		ENTAU*CHAN+5 WAIT T0 COMPLETE	013445	10 7174
020616		RJP*DELAY BUFFER EITHER INTERFACE	013446	76 0314
020617		SKPIIN*KH KH INPUT TERMINATED?	013447	5021 00
020620		RJP*RCORD0 RECORD ERROR-NOT TERM	013450	76 6166
020621		ENTBKB*01 ADV COUNT	013451	37 0001
020622	SKINT	SKPIIN*KL ODA ON KL?	013452	5021 00
020623		SKP*40	013453	5050 40
020624		RJP*RCORD0 RECORD ERROR=YES, ON KL ALSO	013454	76 6166
020625		ENTBKB*01 ADV COUNT	013455	37 0001
020626		SKP0IN*KL WAS IDA ON KH ONLY	013456	5022 00
020627		SKP*40	013457	5050 40
020630		RJP*RCORD0 RECORD ERROR-ON KL ALSO	013460	76 6166
020631		ENTBKB*01 ADV COUNT	013461	37 0001
020632		ENTAL*PIN WAS SOME DATA RECEIVED?	013462	12 7046
020633		JPALNZ*L0K+2 YES=CONTINUE	013463	63 3465
020634		RJP*RCORD0 RECORD ERROR=NO DATA	013464	76 6166
020635		ENTBKB*01 ADV COUNT	013465	37 0001
020636		RJP*CLPIN NOTES ARE IDENTICAL	013466	76 7036
020637	T00UT2	0UT*KL T0 THOSE STARTING AT	013467	5012 00
020640		0*CKWD+1 T00UTS, KH FOR KV VSV	013470	017102
020641		0*CKWD	013471	017101
020642		0UT*KH	013472	5012 00
020643		0*CKWD+1	013473	017102

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
020644		0*CKWD+1	013474	017102
020645	T0INS2	IN*KL	013475	5011 00
020646		0*PIN	013476	017046
020647		0*PIN	013477	017046
020650		IN*KH	013500	5011 00
020651		0*PIN+2	013501	017050
020652		0*PIN+2	013502	017050
020653	VR0UT2	0UT0V*KL	013503	5026 00
020654		ENTAU*CHAN+5 WAIT TO COMPLETE	013504	10 7174
020655		RJP*DELAY	013505	76 0314
020656		SKPIIN*KL	013506	5021 00
020657		RJP*RC0RD0	013507	76 0166
020660		ENTBKB*01	013510	37 0001
020661	SKINT2	SKPIIN*KH	013511	5021 00
020662		SKP*40	013512	5050 0
020663		RJP*RC0RD0	013513	76 0166
020664		ENTBKB*01	013514	37 0001
020665		SKP0IN*KH	013515	5022 00
020666		SKP*40	013516	5050 40
020667		RJP*RC0RD0	013517	76 0166
020670		ENTBKB*01	013520	37 0001
020671		ENTAL*PIN	013521	12 7046
020672		JPALNZ*L0K+2	013522	03 3524
020673		RJP*RC0RD0	013523	76 0166
020674		ENTBKB*01	013524	37 0001
020675		IJP*IN0BAS EXIT	013525	55 3420
020676		RESERV*1	013526	000000
020677	L0CK0B	0*0 ENTRY	013527	00 0000
020700		ENTALK*L0CK0B NOTIFY FAULT	013530	70 3527
020701		STRADR*IFALT ROUTINE	013531	74 7237
020702		RJP*TERMAL	013532	76 0060

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NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
020703		RJP*HONINT HON ALL HON INTS	013533	76 7207
020704		ENTBK*00 B3#0	013534	36 0000
020705		CL*PLACE CL 1ST TIME FLAG	013535	40 7251
020706		CL*FAULTI CL ERROR STORE	013536	40 7236
020707		ENTALK*HEIP HICHAN EI ENT	013537	70 7232
020710		STRADR*ENTAD	013540	74 3544
020711		ENTALK*HICHAN HICHAN K	013541	70 7227
020712		STRADR*CHANAD	013542	74 3554
020713		RXL RXL	013543	5032 00
020714	ENTAD	ENTAL*HEIP ADDR 0H HI EI ENT ADR	013544	12 7232
020715		STRADR*EF0V2=2	013545	74 3616
020716		STRADR*VEP	013546	74 3566
020717		ADDALK*01 ADDR 0F	013547	71 0001
020720		STRADR*CLADR+2 EI WD	013550	74 3664
020721		STRADR*KUR T0 PR0G L0CS	013551	74 3603
020722		STRADR*EF0V2+4	013552	74 3624
020723		STRADR*EF0V3+4	013553	74 3636
020724	CHANAD	ENTAL*HICHAN KH (KL<	013554	12 7227
020725		ENTAU*U12MSK MASK	013555	10 7111
020726		SLSU*RIGA T0	013556	04 3571
020727		STRAL*RIGA PROGRAM	013557	44 3571
020730		SLSU*RIGA+3 L0CS	013560	04 3574
020731		STRAL*RIGA+3	013561	44 3574
020732		STRAL*EF0V2 EXP0V	013562	44 3620
020733		STRAL*EF0V3 EXP0V	013563	44 3632
020734		ENTAL*HIETS=1 IRJP	013564	12 3657
020735		ENTSR*10	013565	5073 10
020736	VEP	STRAL*ADR	013566	44 0000
020737		ENTSR*00	013567	5073 00
020740		RJP*CLADR (101 0R 301 + 2KH<(KL<	013570	76 3662
020741	RIGA	EXP*KH EF 0N KH (KL<	013571	5013 00

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEGN0	LABEL	STATEMENT	ADDRESS	PAGE	INSTRUCT	0283
020742		0*CKWD+4	013572		017105	
020743		0*CKWD	013573		017101	
020744		EXFOV+KH SEND EIR TO KH (KL<	013574	5027	00	
020745	DEELA	ENTAU+CHAN+14 WAIT TO	013575	10	7203	
020746		LSHAU+01 RECEIVE	013576	5045	01	
020747		JPAUP+L0K-1 INTERRUPT	013577	64	3576	
020750		RJP+RC0RDF RECORD ERROR=EIKH NOT RCVD (KL<	013600	76	6175	
020751		ENTBKB*01 ADV COUNT	013601	37	0001	
020752		ENTSR+10	013602	5073	10	
020753	KUR	ENTAL+ADR (101 OR 301+2KH<(KL<	013603	12	0000	
020754		ENTSR+00	013604	5073	00	
020755		JPALNZ+L0K+2 #0? NO=CONTINUE	013605	63	3607	
020756		RJP+RC0RDF RECORD ERROR=EIKH NO DATA WD(KL<	013606	76	6175	
020757		ENTBKB*01 ADV COUNT	013607	37	0001	
020760		RIL CLEAR ALL EIM FFS	013610	5030	00	
020761		SIL LOCKOUT EIM REQ	013611	5034	00	
020762		RXL ENABLE EIRS	013612	5032	00	
020763		RJP+CLADR CLEAR 101 OR 301 +2KH(KL<	013613	76	3602	
020764		ENTAL+RIL IGNORE NEXT EIM	013614	12	7247	
020765		ENTSR+10	013615	5073	10	
020766		STRAL+ADR INTO 100 OR 300 +2KH(KL<	013616	44	0000	
020767		ENTSR+00	013617	5073	00	
020770	EF0V2	EXFOV+KH	013620	5027	00	
020771		ENTAU+CHAN+14	013621	10	7203	
020772		RJP+DELAY	013622	76	03 4	
020773		ENTSR+10	013623	5073	10	
020774		ENTAL+ADR (101 OR 01 +2KH(KL<<	013624	12	0000	
020775		ENTSR+00	013625	5073	00	
020776		JPALNZ+L0K+2	013626	63	3630	
020777		RJP+RC0RDF RECORD ERROR=EIR NOT ACCEPTED	013627	76	6175	
021000		ENTBKB*01 ADV COUNT	013630	37	0001	

TABLE 8-73 PROGRAM LISTING

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

CHANGE 7

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SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
021001	EF0V3	RJP*CLADR 101 OR 301 +2KH(KL<	013631	76 3662
021002		EXF0V*KH	013632	5027 00
021003		ENTAU*CHAN+12	013633	10 7201
021004		RJP*DELAY	013634	76 0314
021005		ENTSR*10	013635	5073 10
021006		ENTAL*ADR (101 OR 301 +2KH(KL<<	013636	12 0000
021007		ENTSR*00	013637	5073 00
021010		JPALZ*L0K+2	013640	61 3642
021011		RJP*RC0RDF RECORD ERROR=EIR ACCEPTED	013641	76 0175
021012		ENTBKB*01	013642	37 0001
021013		ENTAL*PLACE 1ST TIME THRU?	013643	12 7251
021014		JPALNZ*L0K+11 NO=T0 EXIT	013644	63 3655
021015		ENTALK*L0IP L0CHAN EI ENT	013645	70 7223
021016		STRAL*PLACE	013646	44 7251
021017		STRADR*ENTAD	013647	74 3544
021020		ENTALK*L0CHAN L0CHAN K	013650	70 7220
021021		STRADR*CHANAD	013651	74 3554
021022		RJP*TERMAL	013652	76 6060
021023		RJP*H0NINT GET RID 0F EIMS	013653	76 7007
021024		JP*ENTAD=1 D0 KL	013654	34 3543
021025		REMARK*AL (FAULTI< HAS BIT SET T0 FLAG ERROR		
021026		REMARK* 0, 4 IF EI NOT RCVD KH,KL		
021027		REMARK* 1,5 IF N0 EI DATA KH,KL		
021030		REMARK* 2,6 IF EIR (DATA< NOT ACCEPTED WHEN RIL KH,KL		
021031		REMARK* 3,7 EIR (DATA< ACCEPTED WHEN EIM WAITING KH, L		
021032		IJP*L0CK0B EXIT	013655	55 3527
021033		RESERV*1	013656	000000
021034		IJP*HIEISP	013657	55 7751
021035	HIEIS	IJPEI*L0K+1 EXIT	013660	54 3661

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEGNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0285
021036		0*DEELA+4 REF	013661	013601		
021037	CLADR	0*0 ENTRY	013662	00 0000		
021040		ENTSR+10	013663	5073 10		
021041		CL*ADR CL SPECIFIED ADDR	013664	40 0000		
021042		ENTSR*00	013665	5073 00		
021043		IJP*CLADR EXIT	013666	55 3662		
021044	L0K0S	0*0 ENTRY	013667	00 0000		
021045		ENTAL*L0K0S STR ADDRS TO RECYCLE	013670	12 3667		
021046		ADDALK*7776 SUBTRACT 1 FROM ENTRY	013671	71 7776		
021047		ENTSR*10 REF STK 0	013672	5073 10		
021050		STRAL*8UTCFS STR IN AIMAT	013673	44 5400		
021051		ENTSR*00 REF CURRENT STK	013674	5073 00		
021052		RJP*L0CK0B TEST EI L0CK0UT CRKT	013675	76 3527		
021053		ENTAL*FAULTI ANY ERR0RS?	013676	12 7236		
021054		JPALZ*L0K+2 N0 = EXIT	013677	61 3701		
021055		IRJP*I0TAMAT REF AIMAT	013700	30 7265		
021056		IJP*L0K0S EXIT	013701	55 3667		
021057	IN0UTC	0*0 ENTRY	013702	00 0000		
021060		ENTAL*IN0UTC STR ADDRS TO RECYCLE	013703	12 3702		
021061		ADDALK*7776 SUBTRACT 1 FROM ENTRY	013704	71 7776		
021062		ENTSR*10 REF STK 0	013705	5073 10		
021063		STRAL*8UTCFS STR IN AIMAT	013706	44 5400		
021064		ENTSR*00 REF CURRENT STK	013707	5073 00		
021065		ENTALK*IN0UTC NOTIFY FAULT	013710	70 3702		
021066		STRADR*IFAUULT ROUTINE	013711	74 7237		
021067		ENTAL*AFAUULT IRJP T0	013712	12 0004		
021070		ENTSR*10	013713	5073 10		
021071		STRAL*00 FLT ENT	013714	44 0000		
021072		ENTSR*00	013715	5073 00		
021073		CL*AUERDS FLAGS	013716	40 7123		
021074		CL*FAULTI	013717	40 7236		

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1505

SEGNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
021075		CL*PLAC2	013720	40 7254
021076		CL*PLAC3	013721	40 7255
021077		CL*PLAC4	013722	40 7256
021100		ENTALK*HICHAN HIGH CHAN TO	013723	70 7227
021101		STRADR*CHANG+1 CHAN CHANGER 1ST	013724	74 3735
021102		ENTALK*HEIP ADDR OF HICHAN EI	013725	70 7232
021103		STRADR*IN0AG ENT ADR TO PR0G	013726	74 4120
021104		ENTALK*HIBCP ADDR OF HICHAN IN	013727	70 7231
021105		STRADR*IN0A CW L0CS TO PR0G	013730	74 3764
021106	RIIC	ENTICR*02 SELECT 02 FOR ERROR RECORD	013731	0072 02
021107		ENTBK*00 B2#0 INITIAL	013732	36 0000
021110		CL*ALERDS CLEAR ERROR STORES/	013733	40 7124
021111	CHANG	ENTAU*U12MSK CHANNEL	013734	10 7111
021112		ENTAL*HICHAN CHANGER	013735	12 7227
021113		SLSU*IN0AA	013736	04 4005
021114		STRAL*IN0AA OUT	013737	44 4005
021115		STRAL*IN0AF OUT	013740	44 4073
021116		STRAL*IN0AH+3 OUT	013741	44 4131
021117		STRAL*IN0AK OUT	013742	44 4152
021120		SLSU*IN0AB	013743	04 4011
021121		STRAL*IN0AB IN	013744	44 4011
021122		STRAL*IN0AF+3 IN	013745	44 4076
021123		STRAL*IN0AK+3 IN	013746	44 4155
021124		SLSU*IN0AB+3	013747	04 4014
021125		STRAL*IN0AB+3 OUT0V	013750	44 4014
021126		STRAL*IN0AL OUT0V	013751	44 4162
021127		SLSU*IN0AE	013752	04 4066
021130		STRAL*IN0AE SKPIIN	013753	44 4066
021131		STRAL*IN0AM SKPIIN	013754	44 4175
021132		STRAL*IN0AZZ SKPIIN	013755	44 4241
021133		SLSU*IN0AH	013756	04 4126

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NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

TABLE 8-73 PROGRAM LISTING



SEGNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0287
021134		STRAL*IN0AH EXP	013757	44 4126		
021135		SLSU*IN0AI	013760	04 4134		
021136		STRAL*IN0AI EXP0V	013761	44 4134		
021137		SLSU*IN0AJ	013762	04 4145		
021140		STRAL*IN0AJ SKP0IN	013763	44 4145		
021141	IN0A	ENTAL*HIBCP 00+2K	013764	12 7231		
021142		STRADR*IN0AD TO PR0G	013765	74 4041		
021143		ADDALK*01 01+2K	013766	71 0001		
021144		STRADR*IN0AZ	013767	74 4023		
021145		STRADR*IN0AC TO PR0G	013770	74 4022		
021146		CL*PLACE FOR SEARCH	013771	40 7201		
021147		STRADR*PLACE ROUTINE	013772	74 7201		
021150		ENTAL*CKWDZ PRESTORE/RESTORE	013773	12 7253		
021151		STRAL*CKWD OUTPUT DATA	013774	44 7101		
021152		ADDALK*01	013775	71 0001		
021153		STRAL*CKWD+1	013776	44 7102		
021154		ADDALK*01	013777	71 0001		
021155		STRAL*CKWD+2	014000	44 7103		
021156		ADDALK*01	014001	71 0001		
021157		STRAL*CKWD+3	014002	44 7104		
021160		RJP*CLCWAR CLEAR 004-077	014003	76 6120		
021161		RJP*CLPIN CLR INPUT AREA	014004	76 7036		
021162	IN0AA	0UT*KH ONE 0DA /IDR	014005	5012 00		
021163		0*CKWD+1	014006	017102		
021164		0*CKWD	014007	017101		
021165		RJP*TERMAL IGNORE IDA	014010	76 6060		
021166	IN0AB	IN*KH ACCEPT ONE IDR	014011	5011 00		
021167		0*PIN+1 TWO WD INPUT	014012	017047		
021170		0*PIN SHOULD NOT TERMINATE	014013	017046		
021171		0UT0V*KH SEND IDR	014014	5026 00		
021172		SKP*00 NO0PS	014015	5050 00		

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7

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CHANGE 7

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
021173		LSHAL*00	014016	5046 00
021174		RSHAL*00	014017	5042 00
021175		LSHAL*00	014020	5046 00
021176		ENTSR*10 INPUT CACW	014021	5073 10
021177	IN0AC	ENTAL*ADR 00 0R 260+2KH(KL<	014022	12 0000
021200		ENTSR*00	014023	5073 00
021201		ENTAU*PIN INPUT DATA WORD RECEIVED?	014024	10 7046
021202		JPAUNZ*L0K+2 YES=CONTINUE	014025	02 4027
021203		RJP*RC0RD0 RECORD ERROR=NO INPUT DATA 0	014026	76 6166
021204		ENTBK*01	014027	36 0001
021205		CMAL*IN0AB+1 CACW INCREMENTED +1?	014030	02 4012
021206		JPEQ*L0K+2 YES=CONT	014031	61 4033
021207		RJP*RC0RD0 RECORD ERROR=IN CACW INC0RR 1	014032	76 6166
021210		ENTBK*02	014033	36 0002
021211		CMAL*IN0AB+2 CACW CHANGED AT ALL?	014034	02 4013
021212		JPN0T*L0K+2 YES=CONT	014035	03 4037
021213		RJP*RC0RD0 RECORD ERROR=IN CACW#ICACW2	014036	76 6166
021214		ENTBK*03	014037	36 0003
021215		ENTSR*10 TACW INPUT	014040	5073 10
021216	IN0AD	ENTAL*ADR 61 0R 261+2KH(KL<	014041	12 0000
021217		ENTSR*00	014042	5073 00
021220		CMAL*IN0AB+1 WAS TACW MODIFIED?	014043	02 4012
021221		JPEQ*L0K+2 NO=CONTINUE	014044	61 4046
021222		RJP*RC0RD0 RECORD ERROR=TACW WAS CHANGED 3	014045	76 6166
021223		ENTBK*04	014046	36 0004
021224		ENTAL*CKWDZ WAS 0UT CW REF BY IDR?//	014047	12 7253
021225		ADDALK*01 CKWD+1#CKWD+1 ?//	014050	71 0001
021226		CMAL*CKWD+1 WAS S0 BIT 4 DROPPED?	014051	02 7102
021227		JPEQ*L0K+2 NO=CONT	014052	61 4054
021230		RJP*RC0RD0 RECORD ERROR=0UT CWS REFED 4	014053	76 6166
021231		ENTBK*05	014054	36 0005

TABLE 8-73 PROGRAM LISTING

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

SEGN0	LABEL	STATEMENT	ADDRESS	INSTRUCT
021232		ENTAU*AFault	014055	10 0004
021233		ENTSR*10 WAS ADDRESS	014056	5073 10
021234		ENTAL*00 ZERO (00000< MODIFIED?	014057	12 0000
021235		STRAU*00 ((ESTORE 00000<<	014060	46 0000
021236		ENTSR*00	014061	5073 00
021237		CMAL*AFault YES=ERR0R	014062	02 0004
021240		JPEQ*LOK+2 NO=CONTINUE	014063	61 4065
021241		RJP*RCORD0 RECORD ERR0R=ADDR 0 MODIFIED 5	014064	76 6166
021242		ENTBK*00	014065	36 0000
021243	IN0AE	SKPIIN*KH INPUT STILL ACTIVE?	014066	5021 00
021244		SKP*40 YES=CONTINUE	014067	5050 40
021245		RJP*RCORD0 RECORD ERR0R=IN ACT EARLY TERM 6	014070	76 6166
021246		ENTBK*07	014071	36 0007
021247		RJP*TERMAL TERM ALL ACTS	014072	76 6060
021250	IN0AF	OUT*KH CLEAR KH (KL<	014073	5012 00
021251		0*0 OUTPUT	014074	00 0000
021252		0*0 CW AREA	014075	00 0000
021253		IN*KH CLR	014076	5011 00
021254		0*0 IN	014077	00 0000
021255		0*0 CW A	014100	00 0000
021256	SURCH	ENTICR*03 DID IDR	014101	5072 03
021257		ENTBK*0137 REF	014102	36 0137
021260		ENTSR*10 ADDR8	014103	5073 10
021261		ENTALB*0540 540=677?	014104	13 0540
021262		ENTSR*00	014105	5073 00
021263		JPALNZ*CONAD1 YES=WHICH ADDR?	014106	63 4307
021264		BJP*LOK=4	014107	73 4103
021265		ENTBK*0473 DID IDR	014110	36 0473
021266		ENTSR*10 REF	014111	5073 10
021267		ENTALB*04 ADDR8	014112	13 0004
021270		ENTSR*00 004=477?	014113	5073 00

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

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CHANGE 7

SEONO	LABEL	STATEMENT	ADDRESS	INSTRUCT
021271		JPALNZ*CONAD2 YES=WHICH ADDR?	014114	63 4312
021272		BJP*L0K=4	014115	73 4111
021273		RJP*TERMAL	014116	76 6060
021274		RJP*HONINT	014117	76 7007
021275	IN0AG	ENTAL*HEIP IGNORE	014120	12 7232
021276		STRADR*L0K+3 EIM	014121	74 4124
021277		ENTAL*RIL TO	014122	12 7247
021300		ENTSR*10 EIM ENT	014123	5073 10
021301		STRAL*ADR (100 OR 300+2K<	014124	44 0000
021302		ENTSR*00	014125	5073 00
021303	IN0AH	EXP*KH EXP TO PROVIDE	014126	5013 00
021304		0*CKWD+1 EFA/EIR	014127	017102
021305		0*CKWD EI RETURNS IDA/ODR	014130	017101
021306		OUT*KH OUTPUT TO TEST	014131	5012 00
021307		0*CKWD+1 ABILITY TO RECEIVE	014132	017102
021310		0*CKWD+1 ODR,TEST ODR CIRUITRY	014133	017102
021311	IN0AI	EXP0V*KH SEND EFA	014134	5027 00
021312		RIL RIL AND RXL	014135	5030 00
021313		RXL PROVIDE SCANS	014136	5032 00
021314		LSHAL*22 NOOPS	014137	5046 22
021315		LSHAL*22	014140	5046 22
021316		LSHAL*22	014141	5046 22
021317		LSHAL*22	014142	5046 22
021320		LSHAL*22	014143	5046 22
021321		LSHAL*22	014144	5046 22
021322	IN0AJ	SKP0IN*KH WAS ODR DETECTED?	014145	5022 00
021323		RJP*RCORD0 RECORD ERROR=ODR FAILED 7	014146	76 6166
021324		ENTBK*000	014147	36 0010
021325		RJP*CLPIN CLR INPUT DATA AREA	014150	76 7036
021326		RJP*STINK STORE STOP CM AREA+ TO DET INM	014151	76 6772
021327	IN0AK	OUT*KH 3 OUTPUT WDS	014152	5012 00

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
021330		0*CKWD+2	014153	017103
021331		0*CKWD	014154	017101
021332		IN*KH 3 INPUT WDS	014155	5011 00
021333		0*PIN+2	014156	017050
021334		0*PIN	014157	017046
021335		ENTAU*AUERDS CURRENT ERROR FLAGS DISPLAYED	014160	10 7123
021336		ENTAL*ALERDS IF FALSE IN MON REQ DETECTED	014161	12 7124
021337	IN0AL	OUT0V*KH START TRANSFER OF DATA	014162	5026 00
021340		LSHAL*00 NO OPS	014163	5046 00
021341		SKP*00 TO GIVE	014164	5050 00
021342		RSHAL*00 TIME FOR	014165	5042 00
021343		LSHAU*22 BOTH TERMINATES	014166	5045 22
021344		RSHAU*00 ALLOWING	014167	5041 00
021345		LSHA*00 P EQUAL THIS	014170	5047 00
021346		RSHA*00 PROGRAM IF IN MON	014171	5043 00
021347		LSHAL*22	014172	5046 22
021350		LSHAL*22	014173	5046 22
021351		LSHAL*22	014174	5046 22
021352	IN0AM	SKPIIN*KH IN PUT TERMINATED?	014175	5021 00
021353		RJP*RC0RD0 RECORD ERROR=INPUT NOT TERM 8	014176	76 6166
021354		ENTBK*00D	014177	36 0011
021355		ENTAL*PIN 1ST WD	014200	12 7046
021356		JPALNZ*L0K+2 RECEIVED?	014201	63 4203
021357		RJP*RC0RD0 RECORD ERROR=1ST WD NOT RCVD,9	014202	76 6166
021360		ENTBK*010D	014203	36 0012
021361		ENTAL*PIN+1 2ND WD	014204	12 7047
021362		JPALNZ*L0K+2 RECEIVED?	014205	63 4207
021363		RJP*RC0RD0 RECORD ERROR=2ND WD NOT RCVD 10	014206	76 6166
021364		ENTBK*11D	014207	36 0013
021365		ENTICR*03 DATA STORED	014210	5072 03
021366		ENTBK*02 IN 4TH-6TH WD AREA?	014211	36 0002

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

TABLE 8-73 PROGRAM LISTING

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SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
021367		ENTALB*PIN+3 (PIN+3=PIN+5<	014212	13 7051
021370		JPALZ*L0K+4	014213	61 4217
021371		ENTICR*02	014214	5072 02
021372		RJP*RC0RD0 RECORD ERROR=DATA OVERFLOW,11	014215	76 6166
021373		ENTICR*03	014216	5072 03
021374		BJP*L0K=5	014217	73 4212
021375		ENTICR*02	014220	5072 02
021376		ENTBK*12D	014221	36 0014
021377		ENTSR*10	014222	5073 10
021400	IN0AZ	ENTAL*ADR 01+2K	014223	12 0000
021401		ENTSR*00 CACW#ST0PA?	014224	5073 00
021402		CMAL*ST0PA CDM DETECTED?	014225	02 7243
021403		JPN0T*L0K+2 NO=CONTINUE	014226	63 4230
021404		RJP*RC0RD0 RECORD ERROR= CDM DETECTED	014227	76 6166
021405		ENTBK*13D	014230	36 0015
021406		CMAL*PIN3 IN CACW # PIN+3 # TERM VALUE ,	014231	02 7257
021407		JPEQ*L0K+2 YES CONT	014232	61 4234
021410		RJP*RC0RD0 RECORD ERROR=CACW TERM V INC0RR,13	014233	76 6166
021411		ENTBK*14D	014234	36 0016
021412		ENTAL*PIN+2 3RD WD RECEIVED?	014235	12 7050
021413		JPALNZ*L0K+2 YES=CONTINUE	014236	63 4240
021414		RJP*RC0RD0 RECORD=STANDARD 1218 M0DE 0UT,14	014237	76 6166
021415		ENTBK*15D	014240	36 0017
021416	IN0AZZ	SKPIIN*KH WAS 3RD 0DA RETURNED?	014241	5021 00
021417		RJP*RC0RD0 RECORD=STD 1218 M0DE DETECT,15	014242	76 6166
021420		ENTAL*PLAC4 1ST TIME THRU?	014243	12 7256
021421		JPALNZ*FLATS NO=TEST FLAGS	014244	63 4260
021422		ENTALK*7777 SET 1ST TIME	014245	70 7777
021423		STRAL*PLAC4 D0NE FLAG	014246	44 7256
021424		ENTAL*ALERDS M0VE KH FLAGS	014247	12 7124
021425		STRAL*AUERDS	014250	44 7123

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CHANGE 7

TABLE 8-73 PROGRAM LISTING  
 NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
021426		ENTALK*L0CHAN L0CHAN T0	014251	70 7220
021427		STRADR*CHANG+1 CHACHA	014252	74 3735
021430		ENTALK*LEIP USE KL ADDRS	014253	70 7223
021431		STRADR*IN0AG	014254	74 4120
021432		ENTALK*LIBCP KL	014255	70 7222
021433		STRADR*IN0A	014256	74 3764
021434		JP*RIIC RECYCLE	014257	34 3731
021435	FLATS	ENTAL*STDEST IF STD*N0 ERROR,FLAGS#160400	014260	12 7263
021436		ENTAU*NTDSTD NEG IF STD,P0S IF NTDS/1219	014261	10 7262
021437		JPAUP*FLAKS TEST FLAGS FOR NTDS/1219 BUFF.	014262	64 4270
021440		CMAL*ALERDS STD FLAGS 0K,KL?	014263	02 7124
021441		JPN0T*DISC N0-DISPLAY*ST0P	014264	63 4301
021442		CMAL*AUERDS STD FLAGS 0K,KH?	014265	02 7123
021443		JPN0T*DISC N0-DISPLAY*ST0P	014266	63 4301
021444		JP*FLAKS+4 TEST S0 BIT	014267	34 4274
021445	FLAKS	ENTAU*AUERDS KH FLAGS	014270	10 7123
021446		ENTAL*ALERDS KL FLAGS	014271	12 7124
021447		JPAUNZ*DISC ERROR-DISPLAY AND ST0P	014272	02 4301
021450		JPALNZ*DISC ERROR-DISP + ST0P	014273	63 4301
021451		ENTAL*PLAC2 ANY SEARCH ERR0RS,IDR/S0 ERR0R?	014274	12 7254
021452		JPALNZ*DISC YES-DISP +ST0P	014275	63 4301
021453		RJP*MWAIT	014276	76 4325
021454		IJP*IN0UTC EXIT	014277	55 3702
021455		RESERV*1	014300	000000
021456	DISC	ENTAL*PLAC2	014301	12 7254
021457		STRAL*FAULTI	014302	44 7236
021460		ENTAU*AUERDS	014303	10 7123
021461		ENTAL*ALERDS	014304	12 7124
021462		RJP*DISP0C DISPLAY PLAC2 0N C REG	014305	76 6024
021463		IRJP*I0TAMAT REF AIMAT	014306	30 7265
021464		REMARK*AU CONTAINS KH FLAGS		

CHANGE 7 8-1513

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
021465		REMARK*AL CONTAINS KL FLAGS		
021466		REMARK*BIT ERROR		
021467		REMARK* 0 NO INPUT DATA RCVD/INPUTTED		
021470		REMARK* 1 INPUT CACW INCORRECT AFRT IDR*FORCE		
021471		REMARK* 2 CACW WAS NOT INCR BY IDR*FORCE		
021472		REMARK* 3 TACW WAS CHANGED BY IDR*FORCE		
021473		REMARK* 4 OUT CWS REFRENCED BY IDR*FORCE		
021474		REMARK* 5 ADDR 00000 WAS MODIFIED BY IDR*FORCE		
021475		REMARK* 6 IN ACT TERMINATED TOO SOON		
021476		REMARK* 7 ODR/IDA NOT RCVD/SENT		
021477		REMARK* 8 MULTI WD INPUT STILL ACTIVE		
021500		REMARK* 9 1ST WD#0/NOT RCVD		
021501		REMARK* 10 2ND WD#0/NOT RCVD		
021502		REMARK* 11 DATA OVERFLOW		
021503		REMARK* 12 CDM DETECTED		
021504		REMARK* 13 INPUT TERM CACW NOT#TACW+1		
021505		REMARK* 14 STANDARD 1218 MODE BUFFERING DETECTED		
021506		REMARK* 15 3RD ODA NOT RETURNED,1218 STD MODE		
021507		REMARK*CE LOWER CONTAINS CODE FOR 30		
021510		REMARK*BIT PICKED UP OR DROPPED WITH IDR,BOTH K		
021511	CONAD1	ENTALK*0540 540 +B3#ADDR	014307	70 0540
021512		ADDAL*03	014310	14 0003
021513		JP*CONAD2+2 COMPARE TO CACW OF K*INPUT	014311	34 4314
021514	CONAD2	ENTALK*0004 4+B3#ADDR	014312	70 0004
021515		ADDAL*03	014313	14 0003
021516		ENTAU*L9MSK MSK 000777	014314	10 7252
021517		SUBAL*PLACE ADDR FOUND-IN*K CACW ADDR	014315	16 7251
021520		STRAL*PLACE	014316	44 7251
021521		ENTAL*PLAC2	014317	12 7254
021522		LSHAL*9D	014320	5046 11
021523		SLSU*PLACE	014321	04 7251

8-1514

CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING



SEGNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0295
021524		STRAL*PLAC2 KH IN PLAC2 UPPER,KL LOWER	014322	44 7254		
021525		ENTICR*02 RESELECT 02	014323	0072 02		
021526		JP*IN0AG CONTINUE	014324	34 4120		
021527	MWAIT	0*0 ENTRY	014325	00 0000		
021530		ENTAL*MWAIT STR ADDRS TO RECYCLE	014326	12 4325		
021531		ADDALK*7776 SUBTRACT 1 FROM ENTRY	014327	71 7776		
021532		ENTSR*10 REF STK 0	014330	0073 10		
021533		STRAL*SUTCFS STR IN AIMAT	014331	44 5400		
021534		ENTSR*00 REF CURRENT STK	014332	0073 00		
021535		ENTAL*HIMIP HI CHAN IN MON ENT ADDR	014333	12 7235		
021536		STRADR*MWA	014334	74 4337		
021537		ENTAL*MWAED=1 IRJP TO	014335	12 4354		
021540		ENTSR*10	014336	0073 10		
021541	MWA	STRAL*ADR 100 OR 300 + 2KH	014337	44 0000		
021542		ENTSR*00	014340	0073 00		
021543	MWB	OUT*KH MULTI WD OUTPUT	014341	0012 00		
021544		0*CKWD+4 TO GIVE ODA/IDRS	014342	017105		
021545		0*CKWD	014343	017101		
021546	MWC	IN*KH INPUT W/MON	014344	0011 00		
021547		0*PIN+2	014345	017050		
021550		2*PIN	014346	017046		
021551		OUT0V*KH START TRANSFER	014347	0026 00		
021552	MWD	WTFI WAIT TO TERM INPUT, RECEIVE MON	014350	0024 00		
021553		IRJP*10TAMAT REF AIMAT	014351	30 7265		
021554		REMARK*STP IF WAIT SEQ FAILS, HANG UP IN				
021555		REMARK*WAIT SEQ IF I/O NOT PROCESSED				
021556		IJP*MWAIT EXIT	014352	05 4325		
021557		RESERV*1	014353	000000		
021560		IJP*MWAID REF	014354	05 7756		
021561	MWAED	IJP*MWAIT OK ,EXIT	014355	05 4325		
021562	CSDATA	0*0 ENTRY	014356	00 0000		

CHANGE 7 8-1515

TABLE 8-73 PROGRAM LISTING  
 NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

SEONO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1516		021563 ENTAL*CSDATA STR ADDR8 TO RECYCLE	014357	12 4356
		021564 ADDALK*7776 SUBTRACT 1 FROM ENTRY	014360	71 7776
		021565 ENTSR*10 REF STK 0	014361	5073 10
		021566 STRAL*8UTCFS STR IN AIMAT	014362	44 5400
		021567 ENTSR*00 REF CURRENT STK	014363	5073 00
CHANGE 7		021570 ENTALK*CSDATA NOTIFY FAULT	014364	70 4356
		021571 STRADR*IFAULT ROUTINE	014365	74 7237
		021572 CL*PLAC4 SF COUNT	014366	40 7256
		021573 CL*PLAC2 SING BIT PICK DATA	014367	40 7254
		021574 CL*PLAC3 MULTI BIT PICK DATA	014370	40 7255
		021575 CL*PLAC5 SING BIT DR0P DATA	014371	40 4024
		021576 CL*PLAC8 MULTI BIT DR0P DATA	014372	40 4023
		021577 CL*ALERDS	014373	40 7124
		021600 ENTICR*02 02 FOR ERROR RECORD	014374	5072 02
		021601 ENTBK*00 02#0 INITIAL	014375	36 0000
		021602 ENTAU*U12MSK MSK#777700	014376	10 7111
		021603 ENTAL*HICHAN HIGH CHAN	014377	12 7227
		021604 SLSU*CSDA FIRST TIME	014400	04 4411
		021605 STRAL*CSDA TROUGH PROGRAM	014401	44 4411
		021606 SLSU*CSDB	014402	04 4414
		021607 STRAL*CSDB	014403	44 4414
		021610 SLSU*CSDB+3	014404	04 4417
		021611 STRAL*CSDB+3	014405	44 4417
	KLTURN	021612 CL*PLAC7 CLEAR USE	014406	40 4022
		021613 CL*PLACE LOCATIONS	014407	40 7251
		021614 RJP*CLPIN CLEAR INPUT AREA	014410	76 7036
	CSDA	021615 0UT*KH OUTPUT 4 WDS	014411	5012 00
		021616 0*BITDAT+3 1ST WD#08	014412	014617
		021617 0*BITDAT 2ND WD#7S	014413	014614
	CSDB	021620 IN*KH INPUT 4 WDS	014414	5011 00
		021621 0*PIN+3 3RD WD#525252	014415	017051

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0297
021622		0*PIN 4TH WD#252525	014416	017046		
021623		0UT0V*KH SEND IDR	014417	5026 00		
021624		ENTAU*CHAN+10 WAIT	014420	10 7177		
021625		RJP*DELAY	014421	76 0314		
021626		ENTAL*PIN IS 1ST WD#0 ?	014422	12 7046		
021627		JPALZ*CSDD T0 2ND WD,ADV COUNT+4	014423	61 4463		
021630		RJP*RC0RD0 RECORD ERROR=1ST WD NOT ZERO,0	014424	76 6166		
021631		ENTBKB*01 ADV COUNT	014425	37 0001		
021632		CMAL*ALL7S 1ST WD#777777 ?	014426	02 4621		
021633		JPN0T*CSDF NO-ANALYZE FAILURE	014427	03 4433		
021634		RJP*RC0RD0 RECORD ERROR=1ST WD#7S ,1	014430	76 6166		
021635		ENTBKB*03 ADV COUNT	014431	37 0003		
021636		JP*CSDD+1 TEST 3RD WD	014432	34 4464		
021637	CSDE	STRAL*TOCS SAVE DATA WD	014433	44 4620		
021640		ENTBKB*01	014434	37 0001		
021641	CSDF	ENTAU*CHA4 CLEAR AU	014435	10 7163		
021642		SF*45	014436	5044 45		
021643		LSHA*02	014437	5047 02		
021644		JPAUNZ*CSDC MULTI BITS PICKED UP 1ST WD	014440	62 4455		
021645		RJP*RC0RD0 RECORD ERROR-SING BIT PICKUP,2	014441	76 6166		
021646		ENTBKB*02 ADV COUNT	014442	37 0002		
021647		RJP*SPK SF K,(17<, T0 PLAC4	014443	76 4606		
021650		ENTAL*PLAC4	014444	12 7256		
021651		ADDALK*7775 -2 # OCTAL NUMBER OF BIT PICK	014445	71 7775		
021652		ENTAU*L9MSK MSK 000777	014446	10 7252		
021653		STRAL*PLACE PLAC 2 LOWER FOR KH	014447	44 7251		
021654		ENTAL*PLAC2 UPPER FOR KL	014450	12 7254		
021655		LSHAL*9D	014451	5046 11		
021656		SLSU*PLACE	014452	04 7251		
021657		STRAL*PLAC2	014453	44 7254		
021660		JP*CSDD+1 TEST 3RD WD	014454	34 4464		

CHANGE 7 8-1517

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEGNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1518	CSDC	ENTBKB*01 ADV COUNT	014455	37 0001
		RJP*RCORD0 RECORD ERROR-MULTI BIT PICK 1ST ,3	014456	76 6166
		ENTBKB*01 ADV COUNT	014457	37 0001
		ENTAL*TDCS FAILING DATA WD	014460	12 4620
		STRAL*PLACS FOR DISPLAY	014461	44 7255
CHANGE 7	CSDD	JP*CSDD+1 TEST 3RD WD	014462	34 4464
		ENTBKB*04 1ST WD OK, 3RD WD?	014463	37 0004
		ENTAL*PIN+2 DOES 3RD INPUT WD	014464	12 7050
		CMAL*BITDAT+2 EQUAL 525252 ?	014465	02 4616
		JPEG*L0K+2 YES=CONT	014466	61 4470
		RJP*RCORD0 RECORD ERROR=3RD WD WRNG, 4	014467	76 6166
		ENTBKB*01 ADV COUNT	014470	37 0001
		ENTAL*PIN+1 2ND WD#777777?	014471	12 7047
		CMAL*BITDAT+1 YES=	014472	02 4615
		JPEG*CSDD2 TEST KL DATA ,ADV COUNT+4	014473	61 4533
	CSDB2	RJP*RCORD0 RECORD ERROR=2ND WD NOT#78,5	014474	76 6166
		ENTBKB*01 ADV COUNT	014475	37 0001
		JPALNZ*CSDE2 2ND WD#08 ?	014476	63 4502
		RJP*RCORD0 RECORD ERROR=2ND WD#08,6	014477	76 6166
		ENTBKB*03 ADV COUNT	014500	37 0003
		JP*CSDD2+1 TEST KL DATA?	014501	34 4534
		STRAL*TDCS SAVE DATA WD	014502	44 4620
		ENTBKB*01	014503	37 0001
		ENTAL*CHA4 CL AU	014504	10 7163
		CPAL DROPPED BITS TO 1	014505	0061 00
	CSDF2	SF+45	014506	0044 45
		LSHA+02	014507	0047 02
		JPAUNZ*CSDC2 MULTI BIT DROPPED 2ND WD	014510	62 4525
		RJP*RCORD0 RECORD ERROR=SING BIT DROP,7	014511	76 6166
		ENTBKB*02 ADV COUNT	014512	37 0002
		RJP*SPK SF K,(174,TO PLAC4	014513	76 4606

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0299
021720		ENTAL*PLAC4	014514	12	7256	
021721		ADDALK*7775 -2#OCTAL NUMBER OF BIT DROP	014515	71	7775	
021722		ENTAU*LOMSK	014516	10	7252	
021723		STRAL*PLAC7 PLAC 7 LOWER FOR KH	014517	44	4622	
021724		ENTAL*PLAC5	014520	12	4624	
021725		LSHAL*9D	014521	5046	11	
021726		SLSU*PLAC7	014522	04	4622	
021727		STRAL*PLAC5	014523	44	4624	
021730		JP*CSDD2+1 TEST KL?	014524	34	4534	
021731	CSDC2	ENTBKB*01 ADV COUNT	014525	37	0001	
021732		RJP*RCORD0 RECORD ERROR=MULTI BIT DROP,0	014526	76	0166	
021733		ENTBKB*01 ADV COUNT	014527	37	0001	
021734		ENTAL*TDC8 FAIL DATA	014530	12	4620	
021735		STRAL*PLAC8 FOR DISPLAY	014531	44	4623	
021736		JP*CSDD2+1 TEST 1ST TIME THRU ?	014532	34	4534	
021737	CSD02	ENTBKB*04	014533	37	0004	
021740		STRB*BSAVE B2#22?	014534	42	7100	
021741		ENTALK*22 2ND TIME THRU ?	014535	70	0022	
021742		CMAL*BSAVE NO= KL 2ND TIME	014536	02	7100	
021743		JPEQ*DERRQ YES=TEST ERROR DATA	014537	01	4551	
021744		ENTAU*U12MSK MSK#777700	014540	10	7111	
021745		ENTAL*LOCHAN KL 2ND TIME THRU	014541	12	7220	
021746		SLSU*CSDA	014542	04	4411	
021747		STRAL*CSDA	014543	44	4411	
021750		SLSU*CSDB	014544	04	4414	
021751		STRAL*CSDB	014545	44	4414	
021752		SLSU*CSDB+3	014546	04	4417	
021753		STRAL*CSDB+3	014547	44	4417	
021754		JP*KLTURN TEST KL DATA	014550	34	4406	
021755	DERRQ	ENTAL*ALERDS ANY ERROR FLAGS ?	014551	12	7124	
021756		JPALZ*DERROR+1 NO= TO EXIT	014552	01	4604	

CHANGE 7 8-1519

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEGN0	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1520		021757 ENTAU*PLAC2 SING BIT PICKED UP?	014553	10 7254
		021760 JPAUNZ*DERR0P YES=DISPLAY	014554	02 4567
		021761 ENTAU*PLAC5 SING BIT DROPPED?	014555	10 4624
		021762 JPAUNZ*DERR0D YES=DISPLAY	014556	02 4563
		021763 ENTAU*PLAC3 MULTI BITS PICKED?	014557	10 7255
CHANGE 7		021764 JPAUNZ*DERR0P YES=DISPAY	014560	02 4567
		021765 ENTAU*PLAC8 DISPLAY MULTI BITS DROPPED	014561	10 4623
		021766 JP*DERR0R	014562	34 4603
	DERR0D	021767 ENTALK*7777 DISPLAY DROPPED BITS	014563	70 7777
		021770 STRAL*FAULTI IN KH/KL C REG	014564	44 7236
		021771 STRAL*IFAUULT	014565	44 7237
		021772 JP*DERRC	014566	34 4571
	DERR0P	021773 ENTALK*0000 DISPLAY PICKUP BITS	014567	70 0000
		021774 JP*DERR0D+1 IN KH/KL C REG	014570	34 4564
	DERRC	021775 OUT*KH	014571	5012 00
		021776 0*IFAUULT	014572	017237
		021777 0*IFAUULT	014573	017237
		022000 OUT*KL	014574	5012 00
		022001 0*FAULTI	014575	017236
		022002 0*FAULTI	014576	017236
		022003 RJP*TERMAL	014577	76 6060
		022004 OUT0V*KH	014600	5026 00
		022005 OUT0V*KL	014601	5026 00
		022006 ENTAL*ALERDS DISPLAY FLAGS	014602	12 7124
	DERR0R	022007 IRJP*10TAMAT REF TO AIMAT	014603	30 7265
		022010 REMARK*AL REGISTER FLAGS		
		022011 REMARK*BIT FOR ERROR		
		022012 REMARK* 0 1ST WD KH NOT#000000		
		022013 REMARK* 1 1ST WD KH#777777		
		022014 REMARK* 2 1ST WD KH SINGLE BIT PICKED UP		
		022015 REMARK* 3 1ST WD KH MULTIPLE BIT PICKUP		

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
022016		REMARK* 4 3RD WD KH NOT#525252		
022017		REMARK* 5 2ND WD KH NOT#777777		
022020		REMARK* 6 2ND WD KH #000000		
022021		REMARK* 7 2ND WD KH SINGLE BIT DROPPED		
022022		REMARK* 8 2ND WD KH MULTIPLE BITS DROPPED		
022023		REMARK* 9 1ST KL NOT #0S		
022024		REMARK* 10 1ST KL # 7S		
022025		REMARK* 11 1ST KL SING BIT PICK		
022026		REMARK* 12 1ST KL MULTI BIT PICK		
022027		REMARK* 13 3RD KL NOT #525252		
022030		REMARK* 14 2ND KL NOT #7S		
022031		REMARK* 15 2ND KL #0S		
022032		REMARK* 16 2ND KL SING BIT DR0P		
022033		REMARK* 17 2ND KL MULTI BIT DR0P		
022034		REMARK*AU CONTAINS THE 1ST DATA ERROR EXAMD		
022035		REMARK*AFTER DETECTING 0F ERROR FLAG,0NE 0F		
022036		REMARK* PLAC2-SING BIT DR0P/OCTAL N0 0F BIT P0S		
022037		REMARK* (BIT 2 T0 0 #1,2 T0 1 #2, ETC.<		
022040		REMARK* -IF 0NE CHAN 0NLY, LOWER		
022041		REMARK* -IF B0TH CHANS, LOWER/KL,UPPER/KH		
022042		REMARK* PLAC3-MULTI BIT DR0P		
022043		REMARK* -DATA 0F LAST CHAN W/FAILURE		
022044		REMARK* PLAC5-SING BIT PICK/OCTAL N0 0F BIT P0S		
022045		REMARK* (BIT 2 T0 0 #1,2 T0 1 #2,ETC.<		
022046		REMARK* -IF 0NE CHAN 0NLY, LOWER		
022047		REMARK* -IF B0TH CHANS, LOWER/KL,UPPER/KH		
022050		REMARK* PLAC8-MULTI BIT PICKUP		
022051		REMARK* -DATA 0F LAST CHAN W/FAILURE		
022052		REMARK*C REGISTERS KH AND KL DISPLAY OUTPUT		
022053		REMARK*0F TYPE DATA GIVING ERR0RS/ALL 7 0R 0 /		
022054		IJP*CSDATA EXIT	014604	55 4356

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

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CHANGE 7

SEGNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
022055		RESERV*1	014605	000000
022056	SFK	0*0 ENTRY	014606	00 0000
022057		ENTSR*10 BANK 0	014607	5073 10
022060		ENTAL*17 (174	014610	12 0017
022061		ENTSR*00 BANK 1	014611	5073 00
022062		STRAL*PLAC4 TO PLAC4	014612	44 7256
022063		IJP*8FK EXIT	014613	55 4000
022064	BITDAT	000000	014614	000000
022065		777777	014615	777777
022066		525252	014616	525252
022067		252525	014617	252525
022070	TDCS	0*0 TEMP STORE	014620	00 0000
022071	ALL78	777777 CONSTANT	014621	777777
022072	PLAC7	0*0 TEMP STORE	014622	00 0000
022073	PLAC8	0*0 TEMP STORE	014623	00 0000
022074	PLAC5	0*0 TEMP STORE	014624	00 0000
022075	MONTIN	0*0 ENTRY	014625	00 0000
022076		ENTAL*MONTIN STR ADDR TO RECYCLE	014626	12 4025
022077		ADDALK*7776 SUBTRACT 1 FROM ENTRY	014627	71 7776
022100		ENTSR*10 REF STK 0	014630	5073 10
022101		STRAL*SUTCFS STR IN AIMAT	014631	44 5400
022102		ENTSR*00 REF CURRENT STK	014632	5073 00
022103		ENTALK*MONTIN NOTIFY FLT	014633	70 4025
022104		STRADR*IFALT ROUTINE	014634	74 7237
022105		CL*ALERDS	014635	40 7124
022106		ENTICR*02 B2 FOR ERROR RECORD	014636	5072 02
022107		ENTBK*00 B2#0	014637	36 0000
022110		ENTALK*HICHAN HIGH CHAN FIRST	014640	70 7227
022111		STRADR*M0NINA+1	014641	74 4645
022112		ENTALK*HIMIP	014642	70 7235
022113		STRADR*M0NINB	014643	74 4656

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING



SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0303
022114	M0NINA	ENTAU*U12MSK MASK#777700	014644	10 7111		
022115		ENTAL*HICHAN CHAN TO I/O INST	014645	12 7227		
022116		SLSU*M0NINC	014646	04 4662		
022117		STRAL*M0NINC	014647	44 4662		
022120		SLSU*M0NINC+4	014650	04 4666		
022121		STRAL*M0NINC+4	014651	44 4666		
022122		SLSU*M0NINE	014652	04 4675		
022123		STRAL*M0NINE	014653	44 4675		
022124		SLSU*M0NINF	014654	04 4704		
022125		STRAL*M0NINF	014655	44 4704		
022126	M0NINB	ENTAL*HIMIP IN M0N ENT ADDR TO PR0G	014656	12 7235		
022127		STRADR*M0NIND	014657	74 4673		
022130		RJP*CLPIN CLR INPUT AREA	014660	76 7036		
022131		RJP*STINK STORE STOPS 004 677	014661	76 6772		
022132	M0NINC	0UT*KH PROVIDE K IDR	014662	5012 00		
022133		0*CKWD+1	014663	017102		
022134		0*CKWD	014664	017101		
022135		RJP*TERMAL	014665	76 6060		
022136		IN*KH INPUT	014666	5011 00		
022137		0*PIN 1WD	014667	017046		
022140		2*PIN W/M0N	014670	217046		
022141		ENTAL*M0NINX=1 IRJP	014671	12 4726		
022142		ENTSR*10 TO ENT ADR	014672	5073 10		
022143	M0NIND	STRAL*ADR 160 OR 360 +K	014673	44 0000		
022144		ENTSR*00	014674	5073 00		
022145	M0NINE	0UT0V*KH SEND TERM IDR	014675	5026 00		
022146		ENTAL*ALERDS DISPLAY PRESENT FLAGS	014676	12 7124		
022147		ENTAU*CHAN+14	014677	10 7203		
022150		RIL RIL	014700	5030 00		
022151		RJP*DELAY DELAY	014701	76 0314		
022152		RJP*RC0RD0 RECORD ERROR-N0 IN M0N INT,0+2	014702	76 6166		

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1523

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
022153		ENTBKB*01 ADV COUNT	014703	37 0001
022154	M0NINF	SKPIIN*KH INPUT TERMINATED?	014704	5021 00
022155		RJP*RC0RD0 RECORD ERROR-IN STILL ACT.1+3	014705	76 6166
022156		ENTBKB*01 ADV COUNT	014706	37 0001
022157		STRB*BSAVE 2ND TIME	014707	42 7100
022160		ENTALK*04 THROUGH?	014710	70 0004
022161		CMAL*BSAVE YES-	014711	02 7100
022162		JPEG*ALERO TEST ERROR FLAGS	014712	01 4721
022163		ENTALK*LIMIP LOW CHAN (KL< 2ND TIME	014713	70 7226
022164		STRADR*M0NIN0	014714	74 4656
022165		ENTALK*L0CHAN	014715	70 7220
022166		STRADR*M0NINA+1	014716	74 4645
022167		RJP*M0NINT KN0CK DOWN INTS	014717	76 7007
022170		JP*M0NINA RETURN	014720	34 4644
022171	ALERO	ENTAL*ALERDS ANY ERR0RS?	014721	12 7124
022172		JPALZ*L0K+2 N0-T0 EXIT	014722	01 4724
022173		IRJP*I0TAMAT REF AIMAT	014723	30 7265
022174		REMARK*AL CONTAINS FLAGS,BIT		
022175		REMARK*0,2 N0 IN M0N INT KH,KL		
022176		REMARK*1,3 IN ACT N0T TERM KH,KL		
022177		REMARK*S1 REG GIVES FALSE INT ENTRANCE ADR		
022200		IJP*M0NTIN EXIT	014724	55 4625
022201		RESERV*1	014725	000000
022202		IJP*M0NIN0	014726	55 7713
022203	M0NINX	JP*M0NINF-1 CONTINUE	014727	34 4703
022204	ATIME	0*0 ENTRY	014730	00 0000
022205		ENTAL*ATIME STR ADDRS T0 RECYCLE	014731	12 4730
022206		ADDALK*7776 SUBTRACT 1 FROM ENTRY	014732	71 7776
022207		ENTSR*10 REF STK 0	014733	5073 10
022210		STRAL*SUTCFS STR IN AIMAT	014734	44 5400
022211		ENTSR*00 REF CURRENT STK	014735	5073 00

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEGNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0305
022212		ENTALK*ATIME NOTIFY FLT	014736	70 4730		
022213		STRADR*IFault ROUTINE	014737	74 7237		
022214		ENTICR*02	014740	5072 02		
022215		ENTBK*00	014741	36 0000		
022216		CL*ALERDS	014742	40 7124		
022217		ENTALK*HICHAN HIGH CHAN	014743	70 7227		
022220		STRADR*TIMEA+2 TO PRGS	014744	74 5034		
022221		STRADR*TW0V+2	014745	74 4775		
022222		ENTAU*HIFACE KH FAST OR SLOW INTERFACE?	014746	10 7216		
022223		JPAUP*L0K+4 SLOW-C0NT	014747	64 4753		
022224		ENTBKB*04 FAST-	014750	37 0004		
022225		RJP*TW0V FAST-20V	014751	76 4773		
022226		SKP*40	014752	5050 40		
022227		RJP*TIMEA SLOW-TEST KH	014753	76 5032		
022230		ENTALK*L0CHAN LOW CHAN	014754	70 7220		
022231		STRADR*TIMEA+2 TO PRGS	014755	74 5034		
022232		STRADR*TW0V+2	014756	74 4775		
022233		ENTAU*L0FACE KL FAST OR SLOW?	014757	10 7217		
022234		JPAUP*L0K+4 SLOW-C0NT	014760	64 4764		
022235		ENTBKB*04 FAST	014761	37 0004		
022236		RJP*TW0V TEST TWO FORCES	014762	76 4773		
022237		SKP*40	014763	5050 40		
022240		RJP*TIMEA TEST SLOW KL	014764	76 5032		
022241	TIMET	ENTAL*ALERDS ANY ERRORS?	014765	12 7124		
022242		JPALZ*L0K+3 NO-TO EXIT	014766	61 4771		
022243		ENTAU*AUPRAM DISPLAY I-FACE PARAMETERS	014767	10 7260		
022244		IRJP*I0TAMAT REF AIMAT	014770	30 7265		
022245		REMARK*AL FLAGS BIF/ERROR				
022246		REMARK* 0,5 IF 0DA T00 SH0RT KH,KL				
022247		REMARK* 1,6 IF 0DA T00 LONG KH,KL				
022250		REMARK* 2,7 IF IDA T00 SH0RT KH,KL				

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 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1525

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
022251		REMARK* 3,8 IF IDA T00 LONG KH,KL		
022252		REMARK* 4,9 IF TWO CONSECUTIVE FORCES GAVE/		
022253		REMARK* WERE SEEN AS ONE ACKNOWLEDGE KH,KL		
022254		IJP*ATIME EXIT	014771	55 4730
022255		RESERV*1	014772	000000
022256	TW0V	0*0 ENTRY	014773	00 0000
022257		ENTAU*U12MSK 777700 MASK	014774	10 7111
022260		ENTAL*HICHAN CHAN NO	014775	12 7227
022261		SLSU*TW0VC	014776	04 5011
022262		STRAL*TW0VC OUT	014777	44 5011
022263		SLSU*TW0VA	015000	04 5016
022264		STRAL*TW0VA IN	015001	44 5016
022265		SLSU*TW0VB+1	015002	04 5023
022266		STRAL*TW0VB+1 INSTP	015003	44 5023
022267		SLSU*TW0VB	015004	04 5022
022270		STRAL*TW0VB OUT0V	015005	44 5022
022271		STRAL*TW0VB-1 OUT0V	015006	44 5021
022272		RJP*TERMAL	015007	76 6060
022273		RJP*H0NINT	015010	76 7007
022274	TW0VC	OUT*KH OUT CWS/CHAN, B0TH CHNS FAST	015011	5012 00
022275		0*CKWD+2	015012	017103
022276		0*CKWD	015013	017101
022277		RJP*TERMAL CL ACTIVES	015014	76 6060
022300		RJP*CLPIN CLR INPUT AREA	015015	76 7036
022301	TW0VA	IN*KH INPUT	015016	5011 00
022302		0*PIN+1 0F 2 WDS	015017	017047
022303		0*PIN	015020	017046
022304		OUT0V*KH FORCE OUT	015021	5026 00
022305	TW0VB	OUT0V*KH FORCE OUT	015022	5026 00
022306		INSTP*KH TERM IN	015023	5015 00
022307		ENTAU*PIN	015024	10 7046

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0307
022310		ENTAL*PIN*1 WAS 2ND OV/ACK SENT?	015025	12 7047		
022311		JPALNZ*L0K*2 YES-CONTINUE	015026	63 5030		
022312		RJP*RCORD0 RECORD ERROR-ONLY ONE ACK SEEN, 4*0	015027	76 6166		
022313		ENTBKB*01 ADV COUNT	015030	37 0001		
022314		IJP*TW0V EXIT	015031	55 4773		
022315	TIMEA	0*0 ENTRY	015032	00 0000		
022316		ENTAU*U12MSK	015033	10 7111		
022317		ENTAL*HICHAN CHAN TO PR0G	015034	12 7227		
022320		SLSU*TIMA	015035	04 5077		
022321		STRAL*TIMA IN	015036	44 5077		
022322		STRAL*TIMD IN	015037	44 5116		
022323		STRAL*TIMN IN	015040	44 5172		
022324		SLSU*TIMB	015041	04 5102		
022325		STRAL*TIMB OUT	015042	44 5102		
022326		STRAL*TIMB+3 OUT	015043	44 5214		
022327		STRAL*TIMM OUT	015044	44 5165		
022330		SLSU*TIMB+4	015045	04 5106		
022331		STRAL*TIMB+4 OUT0V	015046	44 5106		
022332		STRAL*TIME OUT0V	015047	44 5122		
022333		STRAL*TIM0=1 OUT0V	015050	44 5175		
022334		STRAL*TIM0 OUT0V	015051	44 5176		
022335		SLSU*TIMC	015052	04 5111		
022336		STRAL*TIMC SIN	015053	44 5111		
022337		STRAL*TIMF SIN	015054	44 5127		
022340		SLSU*TIMC+2	015055	04 5113		
022341		STRAL*TIMC+2 SKPIIN	015056	44 5113		
022342		STRAL*TIMF+3 SKPIIN	015057	44 5132		
022343		SLSU*TIMG	015060	04 5211		
022344		STRAL*TIMG EXP	015061	44 5211		
022345		SLSU*TIMH	015062	04 5140		
022346		STRAL*TIMH EXP0V	015063	44 5140		

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NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

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CHANGE 7

SEONO	LABEL	STATEMENT	ADDRESS	INSTRUCT
022347		STRAL*TIMK EXP0V	015064	44 5151
022350		SLSU*TIMI	015065	04 5143
022351		STRAL*TIMI S0UT	015066	44 5143
022352		STRAL*TIML S0UT	015067	44 5156
022353		SLSU*TIMI+2	015070	04 5145
022354		STRAL*TIMI+2 SKP0IN	015071	44 5145
022355		STRAL*TIML+3 SKP0IN	015072	44 5161
022356		SLSU*TIM0+2	015073	04 5200
022357		STRAL*TIM0+2	015074	44 5200
022360		RJP*TERMAL	015075	76 6060
022361		RJP*H0NINT	015076	76 7007
022362	TIMA	IN*KH INPUT TO RECEIVE	015077	5011 00
022363		0*PIN 0DA/TEST 0DA	015100	017046
022364		0*PIN	015101	017046
022365	TIMB	OUT*KH OUT TO PROVID 0DA (EFA<	015102	5012 00
022366		0*CKWD+2 FOR TEST	015103	017103
022367		0*CKWD	015104	017101
022370		RJP*TERMAL	015105	76 6060
022371		OUT0V*KH SEND 0DA	015106	5026 00
022372		ENTAU*CHAN+20 4 US +	015107	10 7207
022373		LSHAL+20 10 US+	015110	5046 20
022374	TIMC	SIN*KH 2 US#16 US	015111	5001 00
022375		RJP DELAY PR0 ESS R QUEST	015112	76 0314
022376		SKPIIN*KH IDR/0DA DETECTED AFTER 10US	015113	5021 00
022377		RJP*RC0RD0 RECORD ERROR=0DA TOO SHORT, 0+5	015114	76 6100
022400		ENTBKB*01 ADV COUNT	015115	37 0001
022401	TIMD	IN*KH INPUT TO RECEIVE	015116	5011 00
022402		0*PIN 0DA/TEST 0DA	015117	017046
022403		0*PIN	015120	017046
022404		RJP*TERMAL	015121	76 6060
022405	TIME	OUT0V*KH SEND 0DA	015122	5026 00

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TABLE 8-73 PROGRAM LISTING

SEGN0	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0300
022406		LSHAL*22	015123	5046 22		
022407		LSHAL*00	015124	5046 00		
022410		IJP*L0K+1 8 US	015125	55 5126		
022411		0*L0K+1 +	015126	015127		
022412	TIMF	SIN*KH 2 US # 18 US	015127	5001 00		
022413		ENTAU*CHAN+17 PROCESS IDR	015130	10 7206		
022414		RJP*DELAY IF DETECTED	015131	76 0314		
022415		SKPIIN*KH WAS IDR DETECTED?	015132	5021 00		
022416		SKP*40 YES=ERROR	015133	5050 40		
022417		RJP*RCORD0 RECORD ERROR=0DA TOO LONG, 1+6	015134	76 6106		
022420		ENTBKB*01 ADV COUNT	015135	37 0001		
022421		RJP*TIMGG SET UP IDA ACTS/CWS	015136	76 5207		
022422		RXL	015137	5032 00		
022423	TIMH	EXP0V*KH SEND EFA/GET IDA	015140	5027 00		
022424		ENTAU*CHAN+10 4US+	015141	10 7177		
022425		LSHAL*34 18 US#	015142	5046 34		
022426	TIMI	S0UT*KH I US#26 US	015143	5002 00		
022427		RJP*DELAY PROCESS 0DR	015144	76 0314		
022430		SKP0IN*KH 0DR DETECTED AFTER 10 US?	015145	5022 00		
022431		RJP*RCORD0 RECORD ERROR=IDA TOO SHORT,2+7	015146	76 6106		
022432		ENTBKB*01 ADV COUNT	015147	37 0001		
022433		RJP*TIMGG SET UP IDA ACTS/CWS	015150	76 5207		
022434	TIMK	EXP0V*KH SEND EFA/GET IDA	015151	5027 00		
022435		LSHAL*20	015152	5046 20		
022436		LSHAL*22	015153	5046 22		
022437		IJP*L0K+1 8 US	015154	55 5155		
022440		0*L0K+1 +	015155	015156		
022441	TIML	S0UT*KH 2 US # 18 US	015156	5002 00		
022442		ENTAU*CHAN+17 PROCESS 0DR	015157	10 7206		
022443		RJP*DELAY IF DETECTED	015160	76 0314		
022444		SKP0IN*KH WAS 0DR DETECTED?	015161	5022 00		

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7

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SEGNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
022445		SKP*40 YES-ERROR	015162	5050 40
022446		RJP*RCRD0 RECORD ERROR-IDA TOO LONG,3+0	015163	70 0100
022447		ENTBKB*01 ADV COUNT	015164	37 0001
022450	TIMM	OUT*KH OUT CHS/SLOW CHAN	015165	5012 00
022451		0*CKWD+2	015166	017103
022452		0*CKWD	015167	017101
022453		RJP*TERMAL TERM ALL ACTS	015170	70 0000
022454		RJP*CLPIN CLR INPUT AREA	015171	70 7030
022455	TIMN	IN*KH INPUT 0F	015172	5011 00
022456		0*PIN+1 TWO WDS	015173	017047
022457		0*PIN	015174	017040
022460		OUT0V*KH FORCE OUT	015175	5020 00
022461	TIM0	OUT0V*KH FORCE OUT	015176	5020 00
022462		LSHAL*20 WAIT 10US TO ALLOW 2ND REG DETECT	015177	5040 20
022463		INSTP*KH TERM IN	015200	5010 00
022464		ENTAU*PIN	015201	10 7040
022465		ENTAL*PIN+1 WAS 2ND 0V/ACK SENT?	015202	10 7047
022466		JPALNZ*L0K+2 YES-CONTINUE	015203	00 5205
022467		RJP*RCRD0 RECORD ERROR-ONLY ONE ACK SEEN, 4+0	015204	70 0100
022470		ENTBKB*01 ADV COUNT	015205	37 0001
022471		IJP*TIMEA EXIT	015206	55 5032
022472	TIMGG	0*0 ENTRY	015207	00 0000
022473		RJP*H0NINT STORE RIL	015210	70 7007
022474	TIMG	EXF*KH EXF TO GIVE RETURN	015211	5013 00
022475		0*CKWD+3 IDA BY EIR	015212	017104
022476		0*CKWD	015213	017101
022477		OUT*KH OUTPUT TO RECEIVE	015214	5012 00
022500		0*CKWD IDA/TEST IDA	015215	017101
022501		0*CKWD	015216	017101
022502		RJP*TERMAL	015217	70 0000
022503		IJP*TIMGG EXIT	015220	55 5207

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING



SEGNU	LABEL	STATEMENT	ADDRESS	INSTRUCT
022504	CDMIN	0*0 ENTRY	015221	00 0000
022505		ENTAL*CDMIN STR ADDR TO RECYCLE	015222	12 5221
022506		ADDALK*7776 SUBTRACT 1 FROM ENTRY	015223	71 7776
022507		ENTSR*10 REF STK 0	015224	5073 10
022510		STRAL*8UTCFS STR IN AIMAT	015225	44 5400
022511		ENTSR*00 REF CURRENT STK	015226	5073 00
022512		ENTALK*CDMIN NOTIFY FLT	015227	70 5221
022513		STRADR*IPFAULT ROUTINE	015230	74 7237
022514		REMARK*ASSUME 1219 /CDM/ WHILE TESTING		
022515		ENTICR*02 02 ERROR RECORD	015231	5072 02
022516		ENTBK*00 B2 # 0	015232	36 0000
022517		CL*PLACE	015233	40 7251
022520		CL*ALERDS CL ERROR DATA STORE	015234	40 7124
022521		ENTAL*HIBCP 60 OR 260 + 2KH	015235	12 7231
022522		ADDALK*01	015236	71 0001
022523		STRADR*CDMIND TO PROG	015237	74 5260
022524		STRADR*CDMING	015240	74 5301
022525		RJP*STRMEM STORE VALUE N IN ADDR N	015241	76 7054
022526		EXP*KH CDM WDS KH	015242	5013 00
022527		0*CKWDA	015243	017105
022530		0*CKWDA	015244	017105
022531	CDMINA	OUT*KH IDR SOURCE	015245	5012 00
022532		0*CKWD*3	015246	017104
022533		0*CKWD	015247	017101
022534		RJP*TERMAL	015250	76 6000
022535	CDMINB	IN*KH INPUT W/CDM	015251	5011 00
022536		4*PIN+1 2WDS	015252	417047
022537		0*PIN	015253	017046
022540	CDMINC	OUT0V*KH SEND IDR / 1ST WD	015254	5026 00
022541		ENTAU*CHAN+20	015255	10 7207
022542		RJP*DELAY	015256	76 0314

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 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1531

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
022543		ENTSR+10	015257	5073 10
022544	CDMIND	ENTAL*ADR 61 OR 261+2KH	015260	12 0000
022545		ENTSR+00	015261	5073 00
022546		CMAL*CDMINE+2 CACW # PIN+1?	015262	02 5270
022547		JPEQ*L0K+2 YES=CONT	015263	61 5205
022550		RJP*RCORD0 RECORD ERROR=EARLY CDM, 0	015264	76 6166
022551		ENTBKB*01 ADV COUNT	015265	37 0001
022552	COMINE	IN+KH RESET INPUT	015266	5011 00
022553		4*PIN+1 W/CDM	015267	417047
022554		0*PIN+1 1WD	015270	017047
022555	CDMINF	OUT0V*KH SEND TERMINATING IDR	015271	5026 00
022556		ENTAU*CHAN+10	015272	10 7177
022557		RJP*DELAY	015273	70 0314
022560		SKPIIN*KH INPUT ACT?	015274	5021 00
022561		SKP+40 YES=CONTINUE	015275	5050 40
022562		RJP*RCORD0 RECORD ERROR=ACT WAS TERM, 1	015276	76 6166
022563		ENTBKB*01 ADV COUNT	015277	37 0001
022564		ENTSR+10	015300	5073 10
022565	CDMING	ENTAL*ADR 61 OR 261+2KH	015301	12 0000
022566		ENTSR+00 INPUT CACW	015302	5073 00
022567		CMAL*CDMINA=1 RELOADED W/CDM WDS?	015303	02 5244
022570		JPEQ*CDMFLG YES=TEST CDM PARAMETER	015304	61 5313
022571		RJP*RCORD0 RECORD ERROR=CDM WD WRNG, 2	015305	76 6166
022572		ENTBKB*01 ADV COUNT	015306	37 0001
022573		CMAL*CDMINJ CACW NOT CHANGED?	015307	02 5336
022574		JPN0T*L0K+3 TRUE=ERROR	015310	63 5313
022575		RJP*RCORD0 RECORD ERROR=CDM WDS NOT STRD,3	015311	76 6166
022576		STRAL*PLACE OR STRD INTO WRNG L0CS.	015312	44 7251
022577	CDMFLG	ENTAL*TWLV18 1218 OR 1219 (CDM< MODE	015313	12 7126
022600		JPALNG*CDMINI 1218=CONT	015314	67 5325
022601		ENTAU*ALERDS ANY ERRORS?	015315	10 7124

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
022602		JPAUZ*CDMINH+4 TO EXIT	015316	60 5323
022603	CDMINH	STRAL*FAULTI CDM PARAMETER ON C	015317	44 7236
022604		ENTAL*PLACE FALSE CDM WD LOC	015320	12 7251
022605		RJP*DISP0C	015321	76 6024
022606		IRJP*I0TAMAT REF AIMAT	015322	30 7265
022607		REMARK*AU CONTAINS ERROR BITS		
022610		REMARK* 0 IF CDM DETECTED ON 1ST IDR		
022611		REMARK* 1 IF ACT WAS TERMINATED BY 2ND IDR		
022612		REMARK* 2 IF RELOAD WD WAS NOT CORRECT		
022613		REMARK* 3 IF RELOAD DID NOT CHANGE INPUT BACKS		
022614		REMARK*AL CONTAINS WRONG RELOAD WD IF NOT#0		
022615		REMARK*C CONTAINS FLAG, NEG IF 1218, POS IF 1219		
022616		IJP*CDMIN EXIT	015323	55 5221
022617		RESERV*1	015324	000000
022620	CDMINI	STRAL*FAULTI CDM PARAMETER ON C	015325	44 7236
022621		ENTAU*ALERDS CDM DETECTED?	015326	10 7124
022622		ENTALK*16 NO=TO EXIT	015327	70 0016
022623		CMAL*ALERDS YES=DISPLAY AND STOP	015330	02 7124
022624		JPEG*CDMINH+4	015331	61 5323
022625		ENTAL*PLACE	015332	12 7251
022626		RJP*DISP0C	015333	76 6024
022627		IRJP*I0TAMAT REF AIMAT	015334	30 7265
022630		NO=0P	015335	5047 00
022631	CDMINJ	0*PIN+2	015336	017050
022632	FUNPGA	0*0 ENTRY	015337	00 0000
022633		ENTAL*FUNPGA STR ADDR TO RECYCLE	015340	12 5337
022634		ADDALK*7776 SUBTRACT 1 FROM ENTRY	015341	71 7776
022635		ENTSR*10 REF STK 0	015342	5073 10
022636		STRAL*SUTCFS STR IN AIMAT	015343	44 5400
022637		ENTSR*00 REF CURRENT STK	015344	5073 00
022640		ENTAL*NTDSTD ABORT FUNCTION PRIORITY	015345	12 7262

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 TABLE 8-73 PROGRAM LISTING

SEGNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1534	022641	JPALP*L0K*2 TEST IF STD 1218 BUFFERING	015346	65 5350
	022642	IJP*FUNPGA EXIT	015347	55 5357
	022643	ENTALK*FUNPGA NOTIFY FLT	015350	70 5357
	022644	STRADR*IFAUPT ROUTINE	015351	74 7257
	022645	CL*PLAC8 CLR 1ST TIME (KH< F6AG,#78 2NDT	015352	40 4623
	022646	CL*AUERDS CLR ERROR	015353	40 7123
	022647	CL*ALERDS FLAG STORES	015354	40 7124
	022650	ENTALK*HICHAN HICHAN T0	015355	70 7227
	022651	STRADR*FUNPA CHACHA	015356	74 5483
	022652	ENTALK*HEIP LOC OF EIM ENT ADR KH	015357	70 7252
	022653	STRADR*PRBBA T0 PR0G	015360	74 5570
	022654	STRADR*PRBBC	015361	74 5635
	022655	STRADR*PRBBD	015362	74 5663
	022656	STRADR*PRAALL*2	015363	74 5731
	022657	ENTALK*HEFMIP LOC OF EF M ENT ADR KH	015364	70 7253
	022660	STRADR*PRBBA*2	015365	74 5572
	022661	STRADR*PRBBF	015366	74 5712
	022662	STRADR*PRBBG	015367	74 5475
	022663	ENTALK*H0MIP LOC OF 0DM ENT ADR KH	015370	70 7254
	022664	STRADR*PRBBB*2	015371	74 5614
	022665	STRADR*PRBBC*2	015372	74 5637
	022666	STRADR*PRBBG*2	015373	74 5477
	022667	ENTALK*HIMIP LOC OF ID M ENT ADR KH	015374	70 7255
	022670	STRADR*PRBBB	015375	74 5612
	022671	STRADR*PRBBD*2	015376	74 5665
	022672	STRADR*PRBBF*2	015377	74 5714
	022673	ENTICR*02 02#0 FOR EA CHAN INITIALLY	015400	5072 02
	022674	ENTBK*00	015401	36 0000
	022675	ENTAU*U12MSK 777700	015402	10 7111
	022676	FUNPA ENTAL*HICHAN CHAN T0	015403	12 7227
	022677	SLSU*PRAAA PR0G I/O INST	015404	04 5574

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NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEGN0	LABEL	STATEMENT	ADDRESS	INSTRUCT
022700		STRAL+PRAAA EXP	015405	44 5574
022701		STRAL+PRAAE EXP	015406	44 5541
022702		STRAL+PRAAG EXP	015407	44 5567
022703		STRAL+PRAAK EXP	015410	44 5716
022704		STRAL+PRAAM EXP	015411	44 5581
022705		SLSU+PRAAB	015412	04 5588
022706		STRAL+PRAAB OUT	015413	44 5588
022707		STRAL+PRAAD OUT	015414	44 5516
022710		STRAL+PRAAE+3 OUT	015415	44 5544
022711		STRAL+PRAAG+3 OUT	015416	44 5572
022712		STRAL+PRAAL-3 OUT	015417	44 5722
022713		STRAL+PRAAN-3 OUT	015420	44 5585
022714		SLSU+PRAAB+3	015421	04 5583
022715		STRAL+PRAAB+3 EXP0V	015422	44 5583
022716		STRAL+PRAAF+3 EXP0V	015423	44 5582
022717		STRAL+PRAAH+3 EXP0V	015424	44 5788
022720		STRAL+PRAAK+3 EXP0V	015425	44 5721
022721		STRAL+PRAAM+3 EXP0V	015426	44 5584
022722		SLSU+PRADD	015427	04 5524
022723		STRAL+PRADD OUT0V	015430	44 5524
022724		STRAL+PRAAL+3 OUT0V	015431	44 5738
022725		STRAL+PRAAN+3 OUT0V	015432	44 5513
022726		SLSU+PRAAD+3	015433	04 5521
022727		STRAL+PRAAD+3 IN	015434	44 5521
022730		STRAL+PRAAF IN	015435	44 5547
022731		STRAL+PRAAH IN	015436	44 5575
022732		STRAL+PRAAL IN	015437	44 5725
022733		STRAL+PRAAN IN	015440	44 5519
022734		ENTALK+PRAAB PREP PR2345	015441	70 5588
022735		STRADR+PRAAB-1 FOR OUTPUT LAST CONDITION	015442	74 5577
022736		ENTAL+PRAAD+2	015443	12 5520

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
022737		ADDALK*01	015444	71 0001
022740		STRAL*PRAAD+1	015445	44 5617
022741		STRAL*PRAAF-2	015446	44 5645
022742		ENTAL*PRAAH-1	015447	12 5674
022743		ADDALK*01	015450	71 0001
022744		STRAL*PRAAH-2	015451	44 5673
022745	LAST0	RJP*PR2345 TEST FN PRI0/OUTPUT LAST	015452	76 5563
022746		ENTALK*PRAAB+3 PREP PR 2345	015453	70 5603
022747		STRADR*PRAAB-1 FOR INPUT LAST CONDITION	015454	74 5577
022750		ENTAL*PRAAD+2	015455	12 5620
022751		STRAL*PRAAD+1	015456	44 5617
022752		STRAL*PRAAF-2	015457	44 5645
022753		ENTAL*PRBBB SWITCH PRIORITY W/INPUT LAST	015460	12 5612
022754		ENTAU*PRBBB+2 *	015461	10 5614
022755		STRAL*PRBBB+2 *	015462	44 5614
022756		STRAU*PRBBB *	015463	46 5612
022757		ENTAU*PRBBF	015464	10 5712
022760		ENTAL*PRBBF+2	015465	12 5714
022761		STRAU*PRBBF+2	015466	46 5714
022762		STRAL*PRBBF	015467	44 5712
022763		ENTAL*PRAAH-1	015470	12 5674
022764		STRAL*PRAAH-2	015471	44 5673
022765	LASTIN	RJP*PR2345 TEST FN PRI0/INPUT LAST	015472	76 5563
022766		SIL	015473	5034 00
022767		SXL IGNORE EIR	015474	5036 00
022770	PRBBG	ENTAL*HEPMIP EF MON ENT,HI PRI0 W/IN LAST	015475	12 7233
022771		STRADR*PRAAC	015476	74 5756
022772		ENTAL*H0MIP 00 MON ENT,L0 PRI0 W/IN LAST	015477	12 7234
022773		STRADR*PRAAC+1	015500	74 5757
022774	PRAAM	EXP*KH EXP FOR EFM	015501	5013 00
022775		2*CKWD	015502	217101

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NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0317
022776		2*CKWD	015503	217101		
022777		EXFOV*KH EFM	015504	5027 00		
023000		OUT*KH OUT FOR ODM AND IDR	015505	5012 00		
023001		2*CKWD	015506	217101		
023002		2*CKWD	015507	217101		
023003	PRAAN	IN*KH IN FOR INPUT LAS CONDITION	015510	5011 00		
023004		0*PIN	015511	017046		
023005		0*PIN	015512	017046		
023006		OUTOV*KH ODM	015513	5026 00		
023007		RJP*SETPR PREP INT ENTS	015514	70 5747		
023010		RIL	015515	5030 00		
023011		SKP*00 RECORD ERROR-IF 00 MON 1ST, 10	015516	5050 00		
023012		LSHAL*00	015517	5046 00		
023013		LSHA*00	015520	5047 00		
023014		ENTAL*PLAC8 1ST TIME THRU?	015521	12 4023		
023015		JPALNZ*PEST NO-TEST FLAGS	015522	63 5554		
023016		ENTALK*7777 YES-SET FLG#777777	015523	70 7777		
023017		STRAL*PLAC8	015524	44 4023		
023020		ENTAL*ALERDS KH FLAGS	015525	12 7124		
023021		STRAL*AUERDS TO AUERDS	015526	44 7123		
023022		CL*ALERDS CLR ERROR FLG STORE	015527	40 7124		
023023		ENTALK*LOCHAN LOCHAN TO	015530	70 7220		
023024		STRADR*FUNPA CHACHA	015531	74 5403		
023025		ENTALK*LEIP LOW CHAN MON INT ENTS TO	015532	70 7223		
023026		STRADR*PR0BA PR0G	015533	74 5570		
023027		STRADR*PRBBC	015534	74 5635		
023030		STRADR*PR0BD	015535	74 5663		
023031		STRADR*PRAALL-2	015536	74 5731		
023032		ENTALK*LEPMIP	015537	70 7224		
023033		STRADR*PRBBA+2	015540	74 5572		
023034		STRADR*PRBBF	015541	74 5712		

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TABLE 8-73 PROGRAM LISTING

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ADDRESS INSTRUCT

SEQNO LABEL STATEMENT

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023035		STRADR*PRBBG	015542	74	5475
023036		ENTALK*L0MIP	015543	70	7225
023037		STRADR*PRBBB+2	015544	74	5614
023040		STRADR*PRBBC+2	015545	74	5637
023041		STRADR*PRBBG+2	015546	74	5477

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023042		ENTALK*LIMIP	015547	70	7226
023043		STRADR*PRBBB	015550	74	5612
023044		STRADR*PRBBD+2	015551	74	5665
023045		STRADR*PRBBF+2	015552	74	5714
023046		JP*FUNPA=3 RETURN TO D0 KL	015553	34	5400
023047	PEST	ENTAU*AUERDS ANY ERRORS	015554	10	7123
023050		ENTAL*ALERDS KH OR KL?	015555	12	7124
023051		JPAUNZ*L0K+2 YES=STOP	015556	62	5560

023052		JPALZ*L0K+2 NO=TO EXIT	015557	61	5561
023053		IRJP*I0TAMAT REF AIMAT	015560	30	7265
023054		REMARK*AU CONTAINS BITS FOR KH ERRORS			
023055		REMARK*AL CONTAINS BITS FOR KL ERRORS			
023056		REMARK* 0,5 IF EP MON 1ST OUT, IN LAST (EIM<			
023057		REMARK* 1 IF OUT MON 1ST, OUT LAST (IDM<			
023060		REMARK* 6 IF IN MON 1ST, IN LAST (ODM<			
023061		REMARK* 2,7 IF OUT MON 1ST OUT, IN LAST (EIM<			

023062		REMARK* 3,8 IF IN MON 1ST OUT, IN LAST (EIM<			
023063		REMARK* 4 IF EP MON 1ST, OUT LAST (IDM<			
023064		REMARK* 9 IF IN MON 1ST, IN LAST (EPM<			
023065		REMARK* 10 IF OUT MON 1ST, IN LAST (EPM<			
023066		IJP*FUNPGA EXIT	015561	55	5337
023067		RESERV*1	015562		000000
023070	PR2345	0*0 ENTRY	015563	00	0000
023071		REMARK*COPY SHOWS OUTPUT LAST PR0G W/KH			

023072		RJP*TERMAL CLR ALL ACTS	015564	76	6860
023073		RJP*MONINT DROP ALL MON INTS	015565	76	7007

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 TABLE 8-73 PROGRAM LISTING



SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0319
023074		RXL ALLOW EIR	015566	5032 00		
023075		SIL LOCK OUT MON INTS	015567	5034 00		
023076	PRBBA	ENTAL*HEIP EI MON ENT,HI PRI0	015570	12 7232		
023077		STRADR*PRAAC	015571	74 5756		
023100		ENTAL*HEFMIP EF MON ENT,L0 PRI0	015572	12 7233		
023101		STRADR*PRAAC+1 TO PREP ENTS ROUTINE	015573	74 5757		
023102	PRAAA	EXP*KH EXP FOR EFM AND EIM	015574	5013 00		
023103		2*CKWD	015575	217101		
023104		2*CKWD	015576	217101		
023105		JP*L0K+1 +1 IF OUTPUT LAST	015577	34 5000		
023106	PRAAB	OUT*KH JP*L0K+4 IF INPUT LAST	015580	5012 00		
023107		0*CKWD OUT FOR OUTPUT LAST COND	015581	017101		
023110		0*CKWD	015582	017101		
023111		EXP0V*KH EFM AND EIM	015583	5027 00		
023112		RJP*SETPR PREP INT ENTS	015584	70 5747		
023113		ENTAU*CHAN+17	015585	10 7206		
023114		ENTAL*ALERDS DISPLAY FLAGS	015586	12 7124		
023115		RIL	015587	5030 00		
023116		RJP*DELAY RECORD ERROR-IF EF MON 1ST,0+5	015510	70 0314		
023117		SIL	015511	5034 00		
023120	PRBBB	ENTAL*HIMIP IN MON ENT,HI PRI0 IF OUT LAST	015512	12 7235		
023121		STRADR*PRAAC L0 PRIORITY IF INPUT LAST	015513	74 5756		
023122		ENTAL*H0MIP OUT MON ENT,L0 PRI0 IF 0D LAST	015514	12 7234		
023123		STRADR*PRAAC+1 HI PRI0 IF INPUT LAST	015515	74 5757		
023124	PRAAD	OUT*KH OUT TO GIVE 0DM, IDR AND	015516	5012 00		
023125		2*CKWD+1 OUTPUT LAST COND	015517	217102		
023126		2*CKWD TACW*+1 IF OUT LAST,*CACW, INL	015520	217101		
023127		IN*KH IN TO GIVE IDM	015521	5011 00		
023130		2*PIN	015522	217046		
023131		2*PIN	015523	217046		
023132	PRADD	OUT0V*KH	015524	5026 00		

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
023133		RJP*SETPR PROCESS AND PREP ENTS	015625	76 5747
023134		ENTAU*AUERDS DISPLAY	015626	10 7123
023135		ENTAL*ALERDS ERR FLGS	015627	12 7124
023136		RIL	015630	5030 00
023137		SKP*00 RECORD ERROR=IF OUT MON 1ST,1	015631	5050 00
023140		LSHAL*00 RECORD ERROR=IF IN MON 1ST,6	015632	5046 00
023141		LSHAU*00	015633	5045 00
023142		SIL	015634	5034 00
023143	PRBBC	ENTAL*HEIP EIM ENT,HI PRI0	015635	12 7232
023144		STRADR*PRAAC	015636	74 5756
023145		ENTAL*H0MIP OUT MON ENT,LO PRI0	015637	12 7234
023146		STRADR*PRAAC+1	015640	74 5757
023147	PRAAE	EXP*KH EXP FOR EIM	015641	5013 00
023150		0*CKWD	015642	017101
023151		0*CKWD	015643	017101
023152		0UT*KH OUT FOR 0DM, IDR AND	015644	5012 00
023153		2*CKWD+1 OUT LAST COND	015645	017102
023154		2*CKWD	015646	017101
023155	PRAAF	IN*KH IN FOR 0DR 0R	015647	5011 00
023156		0*PIN INPUT LAST COND	015650	017046
023157		0*PIN	015651	017046
023160		EXP0V*KH	015652	5027 00
023161		RJP*SETPR SET ENT ADDRS	015653	76 5747
023162		ENTAU*AUERDS DISPLAY	015654	10 7123
023163		ENTAL*ALERDS ERR FLGS	015655	12 7124
023164		RIL	015656	5030 00
023165		SKP*00 RECORD ERROR=IF OUT MON 1ST,2+7	015657	5050 00
023166		LSHAL*00 DELAY W/N00PS	015660	5046 00
023167		LSHA*00	015661	5047 00
023170		SIL	015662	5034 00
023171	PRBBD	ENTAL*HEIP EIM ENT,HI PRI0	015663	12 7232

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 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0321
023172		STRADR*PRAAC	015664	74 5756		
023173		ENTAL*HIMIP ID MØN ENT,LO PRIØ	015665	12 7235		
023174		STRADR*PRAAC+1	015666	74 5757		
023175	PRAAG	EXP*KH EXP FØR EIM	015667	5013 00		
023176		Ø*CKWD	015670	017101		
023177		Ø*CKWD	015671	017101		
023200		ØUT*KH ØUT FØR IDR ØR	015672	5012 00		
023201		Ø*CKWD+1 ØUTPUT LAST CØND	015673	017102		
023202		Ø*CKWD	015674	017101		
023203	PRAAH	IN*KH INPUT FØR IDM ØR	015675	5011 00		
023204		2*PIN INPUT LAST CØND	015676	217046		
023205		2*PIN	015677	217046		
023206		EXPØV*KH	015700	5027 00		
023207		RJP*SETPR SET ENT ADDR8	015701	76 5747		
023210		ENTAU*AUERDS DISPLAY	015702	10 7123		
023211		ENTAL*ALERDS ERR FLGS	015703	12 7124		
023212		RIL	015704	5030 00		
023213		SKP*ØØ REØRD ERRØR=IF ID MØN 18T,3+8	015705	5050 00		
023214		LSHAU*ØØ	015706	5045 00		
023215		LSHA*ØØ	015707	5047 00		
023216		ENTAL*HEIP	015710	12 7232		
023217		STRADR*PRAALL	015711	74 5733		
023220	PRBBF	ENTAL*HIMIP ID MØN INT,HI PRIØ W/ØK LAST	015712	12 7235		
023221		STRADR*PRAAC	015713	74 5756		
023222		ENTAL*HEFMIP EF MØN INT,LO PRIØ W/ID LAST	015714	12 7233		
023223		STRADR*PRAAC+1	015715	74 5757		
023224	PRAAK	EXP*KH EXP TØ GIVE EFM	015716	5013 00		
023225		2*CKWD	015717	217101		
023226		2*CKWD	015720	217101		
023227		EXPØV*KH EFM	015721	5027 00		
023230		ØUT*KH ØUT TØ GIVE IDR	015722	5012 00		

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
023231		0*CKWD+1 +1 0D LAST,+0 ID LAST	015723	017102
023232		0*CKWD	015724	017101
023233	PRAAL	IN*KH IN FOR IDM AND	015725	0011 00
023234		2*PIN INPUT LAST CONDITION	015726	217046
023235		2*PIN	015727	217046
023236		ENTSR+12	015730	0073 12
023237		ENTAL+SPECIA NOOP	015731	12 0000
023240		ENTSR+10	015732	0073 10
023241	PRAALL	STRAL+ADR SIL AND IGNORE EIM	015733	44 0000
023242		ENTSR+00	015734	0073 00
023243		RJP+SETPR PREP INT ENTS	015735	76 0747
023244		ENTAU+AUERDS DISPLAY	015736	10 7123
023245		ENTAL+ALERDS ERR FLGS	015737	12 7124
023246		RIL	015740	0030 00
023247		SKP+00 RECORD ERROR-IF EF MON 1ST,4	015741	0050 00
023250		SKP+00 RECORD ERROR-IF ID MON 1ST,9	015742	0050 00
023251		LSHAL+00 DELAY W/NOOPS	015743	0046 00
023252		LSHAU+00	015744	0045 00
023253		IJP+PR2345 EXIT	015745	05 0503
023254		RESERV+1	015746	000000
023255	SETPR	0+0 ENTRY	015747	00 0000
023256		ENTAU+CHAN+5 DELAY TO PROCESS DATA REQS	015750	10 7174
023257		RJP+DELAY	015751	76 0314
023260		RJP+STINK STORE STOPS IN ENT ADDRS	015752	76 0772
023261		ENTAU+PR0KA-1 IRJP OF HI PRI0 INT	015753	10 0770
023262		ENTAL+PRBAD-1 IRJP OF LO PRI0 INT	015754	12 0702
023263		ENTSR+10	015755	0073 10
023264	PRAAC	STRAU+ADR ENT ADR OF HIGHER PRI0 MON	015756	46 0000
023265		STRAL+ADR ENT ADR OF LOWER PRI0 MON	015757	44 0000
023266		ENTSR+00	015760	0073 00
023267		IJP+SETPR EXIT	015761	05 0747

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 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0323
023270		IRJP*PRBADD FOR INT ENT	015762	30 7771		
023271	PRBAD	0*0 ENTRY	015763	00 0000		
023272		RJP*RC0RD0 RECORD ERROR	015764	76 0166		
023273		ENTBKB*01 ADV COUNT	015765	37 0001		
023274		RJP*H0NINT IGNORE OTHER INT	015766	76 7007		
023275		IJP*PRBAD EXIT	015767	55 5763		
023276		IRJP*PR0KAA FOR INT ENT	015770	30 7770		
023277	PR0KA	0*0 ENTRY	015771	00 0000		
023300		ENTBKB*01 ADV COUNT	015772	37 0001		
023301		RJP*H0NINT IGNORE OTHER INT	015773	76 7007		
023302		IJP*PR0KA EXIT	015774	55 5771		
023303	RJPEI1	IRJP*EIRH	015775	30 7720		
023304	EIRT1	0*0 ENTRY	015776	00 0000		
023305		ENTAU*EIRT1 MAIN PR0G P DISPLAY	015777	10 5776		
023306		ENTSR*10 REF BANK 0	016000	5073 10		
023307		ENTAL*02 DISPLAY CHAN	016001	12 0002		
023310		IRJP*I0TAMAT REF AIMAT	016002	30 7265		
023311		N0-0P	016003	5047 00		
023312	AFAULT	IRJP*FAULTA	016004	30 7712		
023313		0*0 ENTRY	016005	00 0000		
023314		ENTAL*AFULT+1 DISPLAY FAULT	016006	12 6005		
023315		ADDALK*7776 ADDR IN AL	016007	71 7776		
023316		STRADR*L0K+1 AND ITS CONTENTS	016010	74 6011		
023317		ENTAU*ADR IN AU, AND	016011	10 0000		
023320	CON	SXL	016012	5036 00		
023321		SRSM*N0NJPD	016013	5020 40		
023322		EXP*N0NJPD FAULT FLAG LOC	016014	5013 40		
023323		0*IFULT IN C REGISTER	016015	017237		
023324		0*IFULT	016016	017237		
023325		EXPSTP*N0NJPD	016017	5017 40		
023326		EXP0V*N0NJPD	016020	5027 40		

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TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1544		023327 SRSM*N0NJPD	016021	5020 40
		023330 IRJP*I0TAMAT REF AIMAT	016022	30 7265
		023331 N0=0P	016023	5047 00
	DISP0C	023332 0*0 ENTRY-DISPLAY 0N C REG	016024	00 0000
		023333 SXL	016025	5036 00
		023334 SRSM*N0NJPD	016026	5020 40
		023335 EXP*N0NJPD	016027	5013 40
		023336 0*FAULTI	016030	017236
		023337 0*FAULTI	016031	017236
		023340 EXPSTP*N0NJPD	016032	5017 40
		023341 EXP0V*N0NJPD	016033	5027 40
		023342 SRSM*N0NJPD	016034	5020 40
		023343 IJP*DISP0C EXIT	016035	55 6024
	CMRJP	023344 0*0 ENTRY	016036	00 0000
		023345 STRICR*EE SAVE ICR	016037	72 6056
		023346 ENTICR*03 STORE	016040	5072 03
		023347 ENTAL*MNAREA RJP8	016041	12 7213
		023350 STRADR*ASTR IN	016042	74 6050
		023351 ENTAL*MNAREA+1 EI	016043	12 7214
		023352 STRADR*BSTR ENTRANCE	016044	74 6053
		023353 ENTBK*17 REGISTERS	016045	36 0017
		023354 ENTAL*MNADR	016046	12 7215
		023355 ENT8R*10 BANK 0	016047	5073 10
	ASTR	023356 STRALB*MNAREA	016050	45 7213
		023357 BJP*L0K-1	016051	73 6050
		023360 ENTBK*17	016052	36 0017
	BSTR	023361 STRALB*MNAREA	016053	45 7213
		023362 BJP*L0K-1	016054	73 6053
		023363 ENT8R*0 CURRENT BANK	016055	5073 00
	EE	023364 ENTICR*02 REACT 0RG ICR	016056	5072 02
		023365 IJP*CMRJP EXIT	016057	55 6036

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NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
023366	TERMAL	0*0 ENTRY-CL ID, 0D, EF ACT	016060	00 0000
023367		STRICR*DD SAVE ICR	016061	72 6102
023370		STRB*BSAVE SAVE (B<I	016062	42 7100
023371		ENTICR*03 ACT B3	016063	5072 03
023372		ENTBK*17 SET B3#17	016064	36 0017
023373		ENTALK*1517 PRESTR	016065	70 1517
023374		STRADR*TERM F CODES	016066	74 6073
023375		ENTALK*1617 AND	016067	70 1617
023376		STRADR*TERM+1 MAX N0	016070	74 6074
023377		ENTALK*1717 0F CHAN	016071	70 1717
023400		STRADR*TERM+2 IN RTN	016072	74 6075
023401	TERM	INSTP*17 CL ID	016073	5015 17
023402		OUTSTP*17 0D,	016074	5016 17
023403		EXPSTP*17 AND EF	016075	5017 17
023404		ISK*L0K-3 0N	016076	57 6073
023405		ISK*L0K-3 ALL	016077	57 6074
023406		ISK*L0K-3 CHAN	016100	57 6075
023407		BJP*TERM	016101	73 6073
023410	DD	ENTICR*02 REACT ICR	016102	5072 02
023411		ENTB*BSAVE RESTORE (B<I	016103	32 7100
023412		IJP*TERMAL EXIT	016104	55 6060
023413	STCWAR	0*0 ENTRY TO SET ALL CW	016105	00 0000
023414		STRICR*AA SAVE ICR	016106	72 6116
023415		ENTICR*03 ACT B3	016107	5072 03
023416		ENTBK*373	016110	36 0373
023417		ENTAL*CKWD ENT CKWD ADDR	016111	12 7101
023420		ENTSR*10	016112	5073 10
023421		STRALB*04 STR IN ADDR 20-377	016113	45 0004
023422		BJP*L0K-1	016114	73 6113
023423		ENTSR*0	016115	5073 00
023424	AA	ENTICR*02 REACT 0RG ICR	016116	5072 02

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

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SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
023425		IJP*STCHAR EXIT	010117	55 0105
023426	CLCWAR	0*0 ENTRY = CL BUF CW AREA	010120	00 0000
023427		STRICR*CLCICR	010121	72 0131
023430		STRB*BSAVE	010122	42 7100
023431		ENTICR*03 ACT B3	010123	5072 03
023432		ENTBK*0673	010124	36 0673
023433		ENTSR*10	010125	5073 10
023434		CLB*04	010126	41 0004
023435		BJP*L0K=1 EI AND M0N INT AREA	010127	73 0126
023436		ENTSR*0 DEACT SR	010130	5073 00
023437	CLCICR	ENTICR*XX	010131	5072 00
023440		ENTB*BSAVE	010132	32 7100
023441		IJP*CLCWAR EXIT	010133	55 0120
023442	STALAC	0*0 ENTRY=SET ID, 0D, EF ACT	010134	00 0000
023443		STRICR*CC SAVE ICR	010135	72 0155
023444		ENTICR*03 ACT B3	010136	5072 03
023445		ENTBK*17 SET B3#17	010137	36 0017
023446		ENTALK*0117 PRESTR	010140	70 0117
023447		STRADR*STAL F CODES	010141	74 0140
023450		ENTALK*0217 AND	010142	70 0217
023451		STRADR*STAL+1 MAX N0	010143	74 0147
023452		ENTALK*0317 0F CHAN	010144	70 0317
023453		STRADR*STAL+2 IN RTN	010145	74 0150
023454	STAL	SIN*17 SET ID	010146	5001 17
023455		S0UT*17 0D,	010147	5002 17
023456		SEXF*17 AND EF	010150	5003 17
023457		ISK*L0K=3 0N	010151	57 0140
023460		ISK*L0K=3 ALL	010152	57 0147
023461		ISK*L0K=3 CHAN	010153	57 0150
023462		BJP*STAL	010154	73 0140
023463	CC	ENTICR*02 REACT 0RG ICR	010155	5072 02

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NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING



SEONO	LABEL	STATEMENT	ADDRESS	PAGE	INSTRUCT
023464		IJP*STALAC EXIT	016156	0327	0134
023465	RCORDI	0 ERR RCD RTN ENTRY	016157		000000
023466		STRAL*ALSAVI SAVE AL VALUE	016160	44	0204
023467		ENTALB*CHAN	016161	13	7107
023470		SLSET*AUERDS	016162	01	7123
023471		STRAL*AUERDS	016163	44	7123
023472		ENTAL*ALSAVI RESTORE AL	016164	12	0204
023473		IJP*RCORDI EXIT	016165	05	0107
023474	RCORD0	0 ERR RCD RTN ENTRY	016166		000000
023475		STRAL*ALSAVI SAVE AL VALUE	016167	44	0204
023476		ENTALB*CHAN	016170	13	7107
023477		SLSET*ALERDS	016171	01	7124
023500		STRAL*ALERDS	016172	44	7124
023501		ENTAL*ALSAVI RESTORE AL	016173	12	0204
023502		IJP*RCORD0 EXIT	016174	05	0100
023503	RCORDF	0 ERR RCD RTN ENTRY	016175		000000
023504		STRAL*ALSAVI SAVE AL VALUE	016176	44	0204
023505		ENTALB*CHAN	016177	13	7107
023506		SLSET*FAULTI SET BIT	016200	01	7236
023507		STRAL*FAULTI SAVE ERR	016201	44	7236
023510		ENTAL*ALSAVI RESTORE AL	016202	12	0204
023511		IJP*RCORDF EXIT	016203	05	0175
023512	ALSAVI	0*0 TEMP STORE AL ERROR RECORD RTNS	016204	00	0000
023513	CHSET	0 ENTRY = CHAN AND B SET RTN	016205		000000
023514		ENTICR*02 ACT 02	016206	5072	02
023515		ENTAL*IOSIZE ENT I/O PARMTR FR MEM	016207	12	7125
023516		CMAL*SXTEEN 16 I/O CHAN?	016210	02	7117
023517		JPEQ*CHSET1 YES,JP	016211	01	0221
023520		CMAL*TWELVE NOT 16, 12 I/O CHAN?	016212	02	7120
023521		JPEQ*CHSET2 YES, JP	016213	01	0227
023522		CMAL*EIGHT NOT 12, 8 I/O CHAN?	016214	02	7121

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

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SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
023523		JPEG*CHSET3 YES JP	016215	61 0236
023524		CMAL*FOUR NOT 8, 4 I/O CHAN?	016216	02 7122
023525		JPEG*CHSET4 YES JP	016217	61 0244
023526		STOP ERR STOP = WRONG PARMTR ENT	016220	5856 40
023527	CHSET1	STRADR*REICR+1 STR B	016221	74 0401
023530		ENTSR*10 REF BANK 0	016222	5073 10
023531		STRAL*02 SET B2#17 IF 16 CHAN, SEL	016223	44 0002
023532		ENTSR*0	016224	5073 00
023533		ENTAL*CHA016 16 CHAN TBL LBL AND JP TO	016225	12 7114
023534		JP*PRESTR PRESTR LBL IN MAIN RTN	016226	34 0252
023535	CHSET2	ENTALK*13 SET B2#13	016227	70 0013
023536		STRADR*REICR+1 STR B	016230	74 0401
023537		ENTSR*10	016231	5073 10
023540		STRAL*02 IF 12 CHAN,	016232	44 0002
023541		ENTSR*0	016233	5073 00
023542		ENTAL*CHA21 SEL 12 CHAN TBL LBL	016234	12 7115
023543		JP*PRESTR JP TO STR IN MAIN RTN	016235	34 0252
023544	CHSET3	STRADR*REICR+1 STR B	016236	74 0401
023545		ENTSR*10	016237	5073 10
023546		STRAL*02	016240	44 0002
023547		ENTSR*0	016241	5073 00
023550		ENTAL*CHA016 SEL 16 CHAN TBL LBL AND	016242	12 7114
023551		JP*PRESTR JP TO STR IN MAIN RTN	016243	34 0252
023552	CHSET4	ENTALK*03 SET B2#3	016244	70 0003
023553		STRADR*REICR+1 STR B	016245	74 0401
023554		ENTSR*10	016246	5073 10
023555		STRAL*02 IF 4 CHAN AND	016247	44 0002
023556		ENTSR*0	016250	5073 00
023557		ENTAL*CHA40 SEL 4 CHAN TBL LBL	016251	12 7116
023560	PRESTR	STRADR*TBLI01 STR CHAN TBL IN	016252	74 0105
023561		STRADR*TBLI02 MAIN RTN	016253	74 0106

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEGNU	LABEL	STATEMENT	ADDRESS	INSTRUCT
023562		STRADR*TBLI03 D0	016254	74 0333
023563		STRADR*TBL10+1 D0	016255	74 0623
023564		STRADR*TBLI06 D0	016256	74 0437
023565		STRADR*CKTER4=4 D0	016257	74 0450
023566		STRADR*CKTER4 D0	016260	74 0454
023567		STRADR*TBLI09 D0	016261	74 0552
023570		STRADR*CKACT4=3 D0	016262	74 0563
023571		STRADR*CKACT4 D0	016263	74 0566
023572		STRADR*I011A D0	016264	74 0664
023573		STRADR*C0NTI+3	016265	74 0727
023574		STRADR*NEXT+1 D0	016266	74 0736
023575		STRADR*C0NTI+6	016267	74 0732
023576		STRADR*C0NT0 D0	016270	74 1011
023577		STRADR*C0NT0+3 D0	016271	74 1014
023600		STRADR*NEXTA+1 D0	016272	74 1020
023601		STRADR*C0NTF D0	016273	74 1073
023602		STRADR*C0NTF+3 D0	016274	74 1076
023603		STRADR*NEXTB+1 D0	016275	74 1102
023604		STRADR*I012A D0	016276	74 1306
023605		STRADR*CKADR+3	016277	74 1366
023606		STRADR*CKADR+6	016300	74 1371
023607		STRADR*CK0UTD D0	016301	74 1375
023610		STRADR*I013A	016302	74 1566
023611		STRADR*CKADRA	016303	74 1627
023612		STRADR*CKADRA+3	016304	74 1632
023613		STRADR*CK0UU	016305	74 1636
023614		STRADR*I015A+1	016306	74 2456
023615		STRADR*I016D	016307	74 2161
023616		STRADR*I016F+3	016310	74 2221
023617		STRADR*I017A	016311	74 2544
023620		STRADR*STRINA+4	016312	74 2706

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 TABLE 8-73 PROGRAM LISTING

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SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
023621		STRADR*CHANN0	016313	74 7277
023622		STRADR*I017D	016314	74 2562
023623		STRADR*STRINA	016315	74 2702
023624		STRADR*STRINT+1	016316	74 2677
023625		STRADR*I018C	016317	74 2736
023626		IJP*CHSET	016320	55 0205
023627	JMPRD	0*0 ENT = FIND L0 EVN NON=JMPRD CHAN	016321	00 0000
023630		ENTALK*0 PRESTR CHAN 0	016322	70 0000
023631		STRADR*TESTIT+1	016323	74 0335
023632		RJP*TESTIT CK CHAN 0	016324	76 0334
023633		ENTALK*02 PRESTR CHAN 2	016325	70 0002
023634		STRADR*TESTIT+1	016326	74 0335
023635		RJP*TESTIT CK CHAN 2	016327	76 0334
023636		ENTALK*04 PRESTR CHAN 4	016330	70 0004
023637		STRADR*TESTIT+1	016331	74 0335
023640		RJP*TESTIT CK CHAN 4	016332	76 0334
023641		STOP*40 JMPRD CHAN PARAMETER NOT ENTERED	016333	5050 40
023642	TESTIT	0*0 ENT = CK FOR NON=JMPRD CHAN	016334	00 0000
023643		ENTALK*XX CHAN TO AL	016335	70 0000
023644		CMAL*L0CHAN L0 JMPRD CHAN?	016336	02 7220
023645		JPEQ*L0K+3 YES, CK NEXT ONE	016337	61 0342
023646		CMAL*HICHAN NO, HI JMPRD CHAN?	016340	02 7227
023647		JPN0T*USEIT NO, NOT HI OR L0, USE IT	016341	63 0343
023650		IJP*TESTIT YES, CK NEXT ONE	016342	55 0334
023651	USEIT	STRAL*NONJPD	016343	44 7240
023652		ENTAU*UI2MSK 777700	016344	10 7111
023653		SLSU*DISP0C+3 STR CHAN	016345	04 0027
023654		STRAL*DISP0C+3 IN PR0GS	016346	44 0027
023655		STRAL*CON+2	016347	44 0014
023656		SLSU*DISP0C+0	016350	04 0032
023657		STRAL*DISP0C+0	016351	44 0032

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NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEGN0	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0331
023660		STRAL+C0N+5	016352	44 6017		
023661		SLSU+DISP0C+7	016353	04 0033		
023662		STRAL+DISP0C+7	016354	44 0033		
023663		STRAL+C0N+6	016355	44 0020		
023664		SLSU+DISP0C+10	016356	04 0034		
023665		STRAL+DISP0C+10	016357	44 0034		
023666		STRAL+C0N+7	016360	44 0021		
023667		STRAL+DISP0C+2	016361	44 0026		
023670		STRAL+C0N+1	016362	44 0013		
023671		IJP+JMPRD EXIT	016363	55 0321		
023672	CLBFAR	0*0 ENTRY	016364	00 0000		
023673		ENTICR*03 ACT B3	016365	5072 03		
023674		ENTBK*057 B3#57	016366	36 0057		
023675		ENTSR*10 ACT SR BANK 0	016367	5073 10		
023676		CLB*220 CL EF, OUT, AND IN BCW	016370	41 0020		
023677		BJP*L0K-1 ADDR 220=257	016371	73 0370		
023700		ENTBK*057	016372	36 0057		
023701		CLB*20 CL REST BCW AREA	016373	41 0020		
023702		BJP*L0K-1	016374	73 0373		
023703		ENTSR*0 DEACT SR	016375	5073 00		
023704		ENTICR*02 REACT B2	016376	5072 02		
023705		IJP*CLBFAR EXIT	016377	55 0364		
023706	REICR	0*0 ENTRY = RESET ICR	016400	00 0000		
023707		ENTALK*XX ENT ICR VALUE	016401	70 0000		
023710		ENTSR*10 REF BANK 0	016402	5073 10		
023711		STRAL*02 STR IN B2	016403	44 0002		
023712		STRAL*01 STR IN B1	016404	44 0001		
023713		ENTSR*0 REF CURRENT BANK	016405	5073 00		
023714		ENTICR*02 ASSURE B2 ACT	016406	5072 02		
023715		IJP*REICR EXIT	016407	55 0400		
023716	RJPEF	IRJP*EFMH	016410	30 7721		

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NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
023717	EPMON	0*0 EF MON INT ENTR	016411	00 0000
023720		ENTAU*EPMON STR ADDRS TO RECYCLE	016412	12 0411
023721		ADDALK*7776 SUBTRACT 1 FROM ENTRY	016413	71 7776
023722		ENTSR*10 REF STK 0	016414	5073 10
023723		STRAL*SUTCFS STR IN AIMAT	016415	44 5400
023724		ENTSR*00 REF CURRENT	016416	5073 00
023725		ENTAU*EPMON DISPLAY P OF MAIN PR0G	016417	10 0411
023726		ENTSR*10 REF BANK 0	016420	5073 10
023727		ENTAL*02 DISPLAY CHAN	016421	12 0002
023730		IRJP*I0TAMAT REF AIMAT	016422	30 7265
023731		N0=0P	016423	5047 00
023732	RJP0UT	IRJP*AUTMH	016424	30 7722
023733	AUTH0N	0*0 0UT MON INT ENTR	016425	00 0000
023734		ENTAL*AUTH0N STR ADDRS TO RECYCLE	016426	12 0425
023735		ADDALK*7776 SUBTRACT 1 FROM AL	016427	71 7776
023736		ENTSR*10 REF STK 0	016430	5073 10
023737		STRAL*SUTCFS STR IN AIMAT	016431	44 5400
023740		ENTSR*00 REF CURRENT STK	016432	5073 00
023741		ENTAU*AUTH0N DISPLAY P OF MAIN PR0G	016433	10 0425
023742		ENTSR*10 REF BANK 0	016434	5073 10
023743		ENTAL*02 DISPLAY CHAN	016435	12 0002
023744		IRJP*I0TAMAT REF AIMAT	016436	30 7265
023745		N0=0P	016437	5047 00
023746	RJPIN	IRJP*INM0H	016440	30 7723
023747	INM0N	0*0 IN MON INT ENTR	016441	00 0000
023750		ENTAL*INM0N STR ADDRS TO RECYCLE	016442	12 0441
023751		ADDALK*7776 SUBTRACT 1 FROM ENTRY	016443	71 7776
023752		ENTSR*10 REF STK 0	016444	5073 10
023753		STRAL*SUTCFS STR IN AIMAT	016445	44 5400
023754		ENTSR*00 REF CURRENT STK	016446	5073 00
023755		ENTAU*INM0N DISPLAY P OF MAIN PR0G	016447	10 0441

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NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEONO	LABEL	STATEMENT	ADDRESS	INSTRUCT
023756		ENTSR*10 REF BANK 0	016450	5073 10
023757		ENTAL*02 DISPLAY CHAN	016451	12 0002
023760		IRJP*10TAMAT REF AIMAT	016452	30 7265
023761		N0=0P	016453	5047 00
023762	SRCHCM	ENTSR*10 REF BANK 0	016454	5073 10
023763		ENTAL*00	016455	12 0000
023764		ENTSR*0 REF THIS STACK	016456	5073 00
023765		ENTAU*L0K=2	016457	10 6455
023766		STRAU*FIND+3 SAVE ADR BEING CKD	016460	46 6554
023767		CMAL*AFALT ADDR 00 CHGD?	016461	02 0004
023770		JPN0T*FIND YES	016462	63 6551
023771		ENTSR*10 REF STACK 0	016463	5073 10
023772		ENTAL*01 N0, CONTINUE	016464	12 0001
023773		ENTSR*0 REF THIS STACK	016465	5073 00
023774		ENTAU*L0K=2	016466	10 6464
023775		STRAU*FIND+3 SAVE ADR BEING CKD	016467	46 6554
023776		CMAL*AFALT ADDR 01 CHGD?	016470	02 0004
023777		JPN0T*FIND YES	016471	63 6551
024000		ENTICR*03 N0, CONTINUE	016472	5072 03
024001		ENTBK*077	016473	36 0077
024002		ENTSR*10 REF STACK 0	016474	5073 10
024003		ENTALB*0600	016475	13 0000
024004		ENTSR*0 REF THIS STACK	016476	5073 00
024005		ENTAU*L0K=2	016477	10 6475
024006		STRAU*FIND+3 SAVE ADR BEING CKD	016500	46 6554
024007		CMAL*CHA4 ADDR 600=677 CHGD?	016501	02 7163
024010		JPN0T*FIND YES	016502	63 6551
024011		BJP*L0K=7	016503	73 6474
024012		ENTBK*077	016504	36 0077
024013		ENTSR*10	016505	5073 10
024014		ENTALB*0400	016506	13 0400

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SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
024015		ENTSR*0	010507	5073 00
024016		ENTAU*L0K-2	010510	10 0506
024017		STRAU*FIND+3	010511	46 0554
024020		CMAL*CHA4	010512	02 7163
024021		JPN0T*FIND	010513	63 0551
024022		BJP*L0K-7	010514	73 0505
024023		ENTBK*077	010515	36 0077
024024		ENTSR*10	010516	5073 10
024025		ENTALB*200	010517	13 0200
024026		ENTSR*0	010520	5073 00
024027		ENTAU*L0K-2	010521	10 0517
024030		STRAU*FIND+3	010522	46 0554
024031		CMAL*CKWD+1	010523	02 7102
024032		JPEG*L0K+5	010524	61 0531
024033		CMAL*CKWD	010525	02 7101
024034		JPEG*L0K+3	010526	61 0531
024035		CMAL*CHA4	010527	02 7163
024036		JPN0T*FIND	010530	63 0551
024037		BJP*L0K-13	010531	73 0516
024040		ENTBK*073	010532	36 0073
024041		ENTSR*10	010533	5073 10
024042		ENTALB*04	010534	13 0004
024043		ENTSR*0	010535	5073 00
024044		ENTAU*L0K-2	010536	10 0534
024045		STRAU*FIND+3	010537	46 0554
024046		CMAL*CKWD+1	010540	02 7102
024047		JPEG*L0K+5	010541	61 0546
024050		CMAL*CKWD	010542	02 7101
024051		JPEG*L0K+3	010543	61 0546
024052		CMAL*CHA4	010544	02 7163
024053		JPN0T*FIND	010545	63 0551

8-1554  
 CHANGE 7

SAVE ADR BEING CKD

SAVE ADR BEING CKD

SAVE ADR BEING CKD

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING



SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0335
024054		BJP*L0K=13	010546	73	6533	
024055	N0FIND	ENTAU*IFAUULT	010547	10	7237	
024056		IRJP*I0TAMAT REF AIMAT	010550	30	7265	
024057	FIND	ENTAU*IFAUULT	010551	10	7237	
024060		STRAL*FAULTI	010552	44	7236	
024061		RJP*DISP0C CONTENTS OF FIND ADR	010553	76	6824	
024062		ENTALB*XX FIND ADR	010554	13	0000	
024063		IRJP*I0TAMAT REF AIMAT	010555	30	7265	
024064		N0=0P	010556	5047	00	
024065	IRJPEI	IRJP*EISIL	010557	30	7704	
024066	EISILM	0*0	010560	00	0000	
024067		RJP*RC0RDI	010561	70	0157	
024070		IJPEI*EISILM	010562	54	0500	
024071	IRJPEF	IRJP*EFSIL	010563	30	7715	
024072	EFSILM	0*0	010564	00	0000	
024073		RJP*RC0RDO	010565	70	0100	
024074		IJPEI*EFSILM	010566	54	0504	
024075	IRJP0T	IRJP*AUSIL	010567	30	7710	
024076	AUSILM	0*0	010570	00	0000	
024077		RJP*RC0RDF	010571	70	0175	
024100		IJPEI*AUSILM	010572	54	0570	
024101	UPRAM	0*0 ENT	010573	00	0000	
024102		CL*TWLVI0 1218-1219 M0DE	010574	40	7120	
024103		CL*HIFACE HI JMPRD CHAN INTRFACE	010575	40	7210	
024104		CL*L0FACE L0 JMPRD CHAN INTRFACE	010576	40	7217	
024105		CL*NTDSTD	010577	40	7202	
024106		JPALP*L0K+2	010600	05	0002	
024107		STRAL*TWLVI0 STR NEG VAL IF 1218 M0DE	010601	44	7120	
024110		LSHAL*9D	010602	5040	11	
024111		JPALP*L0K+2 NTDS 0R STD TYPE BUFFERING	010603	05	0005	
024112		STRAL*NTDSTD NEG IF STD	010604	44	7202	

TABLE 8-73 PROGRAM LISTING

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

CHANGE 7

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SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
024113		LSHAL*9D P08 IF NTDS	016605	5046 11
024114		SLCL*L0MSK CL ALL BUT 10 SIZE	016606	52 7112
024115		STRAL*I0SIZE SAVE HIGHEST CHAN N0 INDICATING	016607	44 7125
024116		REMARK NUMBER OF CHANS		
024117		RSHA*18D MOVE JMPRD CHAN INFO	016610	5043 22
024120		JPALP*L0K+2 P08 IF SLOW INTFACE 0N HIJP CHAN	016611	05 6613
024121		STRAL*HIFACE NEG IF FAST INTFACE 0N HIJP CHAN	016612	44 7216
024122		SLCL*L15MSK CL UPPER 3 BITS	016613	52 7113
024123		LSHAL*9D	016614	5046 11
024124		JPALP*L0K+2	016615	05 6617
024125		STRAL*L0FACE	016616	44 7217
024126		SLCL*L15MSK	016617	52 7113
024127		ENTAU*CHA4 CL AU	016620	10 7163
024130		LSHA*9D	016621	5047 11
024131		STRAU*L0CHAN L0 JMPRD CHAN N0	016622	46 7220
024132		LSHAL*9D	016623	5046 11
024133		STRAL*HICHAN HI JMPRD CHAN N0	016624	44 7227
024134		RJP*MAKADR CONSTRUCT REG JPRD-CHAN ADDRS	016625	76 6627
024135		IJP*UPRAM EXIT	016626	55 6573
024136	MAKADR	0*0 ENTRY	016627	00 0000
024137		ENTAL*L0CHAN L0W JPRD CHAN*KL	016630	12 7220
024140		ENTICR*02 SELECT B2	016631	5072 02
024141		ENTBK*00 B2#0 INITIALLY	016632	56 0000
024142		RJP*ADDRES PR0CC L0CHAN	016633	76 6640
024143		ENTAL*HICHAN HIGH JPRD CHAN *KH	016634	12 7227
024144		ENTBK*07 B2#7 FOR HI CHAN	016635	56 0007
024145		RJP*ADDRES PR0CC HICHAN	016636	76 6640
024146		IJP*MAKADR EXIT	016637	55 6627
024147	ADDRES	0*0 ENTRY	016640	00 0000
024150		SLCL*KHMSK MASK # 000010, CHAN 10-17?	016641	52 7212
024151		JPALNZ*HIGRUP YES-JUMP	016642	63 6662

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CHANGE 7

TABLE 8-73 PROGRAM LISTING

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

SEGN0	LABEL	STATEMENT	ADDRESS	INSTRUCT
024152		ENTALB*L0CHAN	016643	13 7220
024153	L0GRUP	LSHAL*01 N0 = 2K	016644	5046 01
024154		ADDALK*40 +40*40+2K	016645	71 0040
024155		STRALB*L0BCP OUTPUT BUF C	016646	45 7221
024156		ADDALK*20 +20*60+2K	016647	71 0020
024157		STRALB*L1BCP INPUT BUF C	016650	45 7222
024160		ADDALK*20 +20*100+2K	016651	71 0020
024161		STRALB*LEIP EI ENT/WD	016652	45 7223
024162		ADDALK*20 +20*120+2K	016653	71 0020
024163		STRALB*LEFMIP EF M0N I ENT	016654	45 7224
024164		ADDALK*20 +20*140+2K	016655	71 0020
024165		STRALB*L0MIP OUTPUT M0N I ENT	016656	45 7225
024166		ADDALK*20 +20*160+2K	016657	71 0020
024167		STRALB*L1MIP INPUT M0N I ENT	016660	45 7226
024170		IJP*ADDRES EXIT	016661	55 6640
024171	H1GRUP	ENTALB*L0CHAN	016662	13 7220
024172		ADDALK*7767 K=10	016663	71 7767
024173		LSHAL*01 2(K=10<	016664	5046 01
024174		ADDALK*240 240 + 2K	016665	71 0240
024175		JP*L0GRUP+2 ADD 200 FOR UPPER GROUP CHANS	016666	34 6646
024176	CHACHA	0*0	016667	00 0000
024177		ENTAU*U12MSK SLSU MASK # 777700	016670	10 7111
024200		ENTAL*L0CHAN L0W JUMPERED CHAN TO PR0G	016671	12 7220
024201		SLSU*EIKL	016672	04 3311
024202		STRAL*EIKL EXP KH	016673	44 3311
024203		SLSU*EIKL+3	016674	04 3314
024204		STRAL*EIKL+3 EXP0V KH	016675	44 3314
024205		SLSU*AUTS	016676	04 3153
024206		STRAL*AUTS 0UT KH	016677	44 3153
024207		STRAL*AUTS3 0UT KL	016700	44 3254
024210		STRAL*T00UTS+3 0UT KL	016701	44 3433

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7

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SEGNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1558	024211	STRAL+T00UT2 OUT KL	016702	44 3467
	024212	STRAL+DERRC+3 OUT KL	016703	44 4574
	024213	SLSU+TESTAK	016704	04 3234
	024214	STRAL+TESTAK SKP0IN KH	016705	44 3234
	024215	STRAL+SKINT+4 SKP0IN KL	016706	44 3456
	024216	SLSU+VR0UT2	016707	04 3563
	024217	STRAL+VR0UT2 OUT0V KL	016710	44 3563
	024220	STRAL+DERRC+10 OUT0V KL	016711	44 4601
	024221	SLSU+T0INS+3	016712	04 3441
	024222	STRAL+T0INS+3 IN KL	016713	44 3441
	024223	STRAL+T0INS2 IN KL	016714	44 3475
	024224	STRAL+ACKAUT IN KL	016715	44 3260
	024225	SLSU+SKINT	016716	04 3452
	024226	STRAL+SKINT SKPIIN KL	016717	44 3452
	024227	STRAL+VR0UT2+3 SKPIIN KL	016720	44 3566
	024230	STRAL+GACK SKPIIN KL	016721	44 3356
	024231	ENTAL+HICHAN HIGH JUMPERED CHAN TO PR0G	016722	12 7227
	024232	SLSU+EIKH	016723	04 3202
	024233	STRAL+EIKH EXP KL	016724	44 3202
	024234	STRAL+CDMINA-3 EXP KH	016725	44 5242
	024235	SLSU+EIKH+3	016726	04 3205
	024236	STRAL+EIKH+3 EXP0V KL	016727	44 3205
	024237	SLSU+AUTS1	016730	04 3144
	024240	STRAL+AUTS1 OUT KL	016731	44 3144
	024241	STRAL+AUTS2 OUT KH	016732	44 3263
	024242	STRAL+T00UTS OUT KH	016733	44 3430
	024243	STRAL+T00UT2+3 OUT KH	016734	44 3472
	024244	STRAL+CDMINA OUT KH	016735	44 5245
	024245	STRAL+DERRC OUT KH	016736	44 4571
	024246	STRAL+MWB OUT KH	016737	44 4341
	024247	SLSU+TESTAC	016740	04 3343

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0339
024250		STRAL*TESTAC SKP0IN KL	016741	44	3343	
024251		STRAL*SKINT2+4 SKP0IN KH	016742	44	3515	
024252		SLSU*VER0UT	016743	04	3444	
024253		STRAL*CDMNC OUT0V KH	016744	44	0254	
024254		STRAL*CDMINF OUT0V KH	016745	44	0271	
024255		STRAL*VER0UT OUT0V KH	016746	44	3444	
024256		STRAL*DERRC+7 OUT0V KH	016747	44	4000	
024257		STRAL*MWC+3 OUT0V KH	016750	44	4347	
024260		SLSU*T0INS	016751	04	3436	
024261		STRAL*T0INS IN KH	016752	44	3436	
024262		STRAL*T0INS2+3 IN KH	016753	44	3500	
024263		STRAL*ACK0UT IN KH	016754	44	3100	
024264		STRAL*CDMIN0 IN KH	016755	44	0251	
024265		STRAL*CDMINE IN KH	016756	44	0266	
024266		STRAL*MWC IN KH	016757	44	4344	
024267		SLSU*SKINT2	016760	04	3511	
024270		STRAL*SKINT2 SKPIIN KH	016761	44	3511	
024271		STRAL*VER0UT+3 SKPIIN KH	016762	44	3447	
024272		STRAL*WACK0 SKPIIN KH	016763	44	3247	
024273		STRAL*CDMINF+3 SKPIIN KH	016764	44	0274	
024274		IJP*CHACHA EXIT	016765	05	0067	
024275		RESERV*01	016766		000000	
024276	IRJPAT	IRJP*AURIL	016767	30	7717	
024277	AURILM	0*0 ENTRY	016770	00	0000	
024300		JP*1016A EXIT	016771	34	2203	
024301	STINK	0*0 ENTRY	016772	00	0000	
024302		STRICR*03 SAVE (ICR<	016773	72	7003	
024303		STRB*03SAVE SAVE (B<	016774	42	7100	
024304		ENTICR*03 USE 03	016775	5072	03	
024305		ENTBK*0073 B3#673	016776	36	0673	
024306		ENTAL*ST0PAA ENT ST0P*40 CODE	016777	12	7250	

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7

8-1559

SEGNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1560		ENTSR*10 REF BANK 0	017000	5073 10
		STRALB*04 STR STOP*41 IN ADR 04-677	017001	45 0004
		BJP*L0K=1 DECR B3 AND JP	017002	73 7001
	SS	ENTICR*00 RESTORE (ICR<	017003	5072 00
		ENTSR*0 REF THIS STACK	017004	5073 00
CHANGE 7		ENTB*BSAVE RESTORE (B<	017005	32 7100
		IJP*STINK EXIT	017006	55 6772
	HONINT	0*0 ENTRY = HONOR ALL INT	017007	00 0000
		STRICR*ENDONE SAVE B	017010	72 7025
		STRB*BSAVE SAVE(B<	017011	42 7100
		ENTICR*03	017012	5072 03
		ENTBK*373 B3#373	017013	36 0373
		ENTAL*RIL	017014	12 7247
		ENTSR*10	017015	5073 10
		STRALB*04 STR IN ADDR 4-377 TO	017016	45 0004
		BJP*L0K=1 HONOR ALL INT	017017	73 7010
		ENTSR*0	017020	5073 00
		RIL	017021	5030 00
		ENTAL*CHAN+11 1000	017022	12 7200
		LSHAL*01 DLY TO LET ALL	017023	5046 01
		JPALP*L0K=1 MON BE HONORED	017024	65 7023
	ENDONE	ENTICR*0 REACT ORIG ICR	017025	5072 00
		ENTB*BSAVE RESTORE(B<	017026	32 7100
		IJP*HONINT EXIT	017027	55 7007
	SRSMAL	0*0 ENTRY = SET RES	017030	00 0000
		SRSM*17 UPPER ODD	017031	5020 17
		SRSM*16 UPPER EVEN	017032	5020 16
		SRSM*07 LOWER ODD	017033	5020 07
		SRSM*06 LOWER EVEN	017034	5020 06
		IJP*SRSMAL EXIT	017035	55 7030
	CLPIN	0*0 ENTRY	017036	00 0000

NAVFSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
024346		CL*PIN CL INPUT AREA	017037	40 7046
024347		CL*PIN+1	017040	40 7047
024350		CL*PIN+2	017041	40 7050
024351		CL*PIN+3	017042	40 7051
024352		CL*PIN+4	017043	40 7052
024353		CL*PIN+5	017044	40 7053
024354		IJP*CLPIN EXIT	017045	55 7036
024355	PIN	RESERV*6 INPUT STR	017046	000000
024356	STRMEM	0*0 ENTRY	017054	00 0000
024357		STRICR*ENDA SAVE ICR	017055	72 7071
024360		STRB*BSAVE SAVE B	017056	42 7100
024361		ENTICR*03 USE B3	017057	5072 03
024362		ENTBK*677 B3#677	017060	36 0677
024363		ENTSR*10 REF STACK 0	017061	5073 10
024364		STRB0*0 STR 0-677 IN 0-677	017062	43 0000
024365		BJP*L0K-1	017063	73 7062
024366		ENTSR*0 REF THIS STACK	017064	5073 00
024367		ENTAL*AFALT RESTORE ADDR 0	017065	12 6004
024370		ENTSR*10 REF STACK 0	017066	5073 10
024371		STRAL*0	017067	44 0000
024372		ENTSR*0 REF THIS STACK	017070	5073 00
024373	ENDA	ENTICR*XX RESTORE ICR	017071	5072 00
024374		ENTB*BSAVE RESTORE B	017072	32 7100
024375		IJP*STRMEM EXIT	017073	55 7054
024376	IRJPF	IRJP*IRJPFL	017074	30 7714
024377	IRJPFM	0*0 ENT	017075	00 0000
024400		RJP*RCORD0 NOTE ERR	017076	76 6166
024401		IJPEI*IRJPFM EXIT	017077	54 7075
024402	BSAVE	0*0 SAVE CONTENTS OF B	017100	00 0000
024403	CKWD	0*CKWD BUF CONTR WDS	017101	017101
024404		0*CKWD+1	017102	017102

CHANGE 7 8-1561

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1562		0*CKWD+2	017103	017103
		0*CKWD+3	017104	017104
	CKWDA	40*CKWDA BUF CONTR WD	017105	40 7105
		40*CKWDA+1	017106	40 7106
		40*CKWDA+2	017107	40 7107
CHANGE 7		20*CKWDB	017110	20 7110
	U12MSK	777700 UPPER 12 BIT MASK	017111	777700
	L6MSK	000077 LOWER 6 BIT MASK	017112	000077
	L15MSK	077777 L0 15 BIT MASK	017113	077777
	CHA816	0*CHA168 16 OR 8 CHAN TBL LBL	017114	017127
	CHA21	0*CHA12 12 CHAN TBL LBL	017115	017147
	CHA40	0*CHA4 4 CHAN TBL LBL	017116	017163
	SXTEEN	17 HI CHAN NO FOR 16 I/O CHAN	017117	000017
	TWELVE	16 D0 12 D0	017120	000016
	EIGHT	07 D0 8 D0	017121	000007
	FOUR	06 D0 4 D0	017122	000006
	AUERDS	0 ERR STR	017123	000000
	ALERDS	0 D0	017124	000000
	I0SIZE	0 PARAMETER STR	017125	000000
	TWLV18	0 NEG#1218 MODE - POS#1219 MODE	017126	000000
	CHA168	00 8 OR 16 CHAN TBL	017127	000000
		01	017130	000001
		02	017131	000002
		03	017132	000003
		04	017133	000004
		05	017134	000005
		06	017135	000006
		07	017136	000007
		10	017137	000010
		11	017140	000011
		12	017141	000012



SEGNO	LABEL	STATEMENT	PAGE ADDRESS	0343 INSTRUCT
024444			017142	000013
024445			017143	000014
024446			017144	000015
024447			017145	000016
024450			017146	000017
024451	CHA12	12 CHAN TBL	017147	000000
024452			017150	000001
024453			017151	000002
024454			017152	000003
024455			017153	000004
024456			017154	000005
024457			017155	000006
024460			017156	000007
024461			017157	000010
024462			017158	000012
024463			017159	000014
024464			017162	000016
024465	CHA4	4CHAN TBL	017163	000000
024466			017164	000002
024467			017165	000004
024470			017166	000006
024471	CHAN	CHAN ERR TBL	017167	000001
024472			017170	000002
024473			017171	000004
024474			017172	000010
024475			017173	000020
024476			017174	000040
024477			017175	000100
024500			017176	000200
024501			017177	000400
024502			017200	001000

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1563

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
024503		02000	017201	002000
024504		04000	017202	004000
024505		010000	017203	010000
024506		020000	017204	020000
024507		040000	017205	040000
024510		100000	017206	100000
024511		200000*	017207	200000
024512		400000*	017210	400000
024513	CMADR	0 STR OF CONTR MEM ADDR	017211	000000
024514	KHMSK	000010 CK MSK FOR HI CHAN GP	017212	000010
024515	MNAREA	0 INT	017213	000000
024516		0 REG STR	017214	000000
024517	MNADR	0*0	017215	00 0000
024520	HIFACE	0 NEG*HI JMPRD CHAN FAST INT FACE	017216	000000
024521	L0FACE	0 NEG*L0 JMPRD CHAN FAST INT FACE	017217	000000
024522	L0CHAN	0 L0 JMPRD CHAN N0	017220	000000
024523	LEFP	REMARK L0W CHAN EF (L20-37,M220-237<		
024524	L0BCP	0*0 OBC (L40-57,	017221	00 0000
024525	LIBCP	0*0 IBC (L60-77,	017222	00 0000
024526	LEIP	0*0 EI (L100-117,	017223	00 0000
024527	LEFMIP	0*0 EFMI(L120-137,	017224	00 0000
024530	L0MIP	0*0 OMI (L140-157,	017225	00 0000
024531	LIMIP	0*0 IMI (L160-177,	017226	00 0000
024532	HICHAN	0 HI JMPRD CHAN N0	017227	000000
024533	HEFP	REMARK IH CHAN EF		
024534	H0BCP	0*0 OBC	017230	00 0000
024535	HIBCP	0*0 IBC	017231	00 0000
024536	HEIP	0*0 EI	017232	00 0000
024537	HEFMIP	0*0 EFMI	017233	00 0000
024540	H0MIP	0*0 OMI	017234	00 0000
024541	HIMIP	0*0 IMI	017235	00 0000

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
024542	FAULTI	0*0	017236	00 0000
024543	IFault	0 FAULT BUF STR	017237	000000
024544	NONJPD	0 NON-JPRD CHAN NO STR	017240	000000
024545	CDM19B	0*0 RARMTR STORE-NEG IF 1218 MODE	017241	00 0000
024546	CCMADR	0	017242	000000
024547	ST0PA	ST0P*41	017243	5056 41
024550	ST0PB	ST0P*43	017244	5056 43
024551	ST0PC	ST0P*45	017245	5056 45
024552	L12MSK	007777	017246	007777
024553	RIL	RIL	017247	5030 00
024554	ST0PAA	ST0P*40 CONST	017250	5056 40
024555	PLACE	0*0 TEMP STORAGE	017251	00 0000
024556	L9MSK	000777	017252	000777
024557	CKWDZ	0*CKWD FOR PRESTORING	017253	017101
024560	PLAC2	0*0 TEMP STORAGE	017254	00 0000
024561	PLAC3	0*0 TEMP STORE	017255	00 0000
024562	PLAC4	0*0 TEMPORARY STR	017256	00 0000
024563	PIN3	0*PIN+3 FOR COMPARE	017257	017051
024564	AUPRAM	003001	017260	003001
024565	ALPRAM	000017	017261	000017
024566	NTDSTD	0*0 P0S IF NTDS/1219,NEG IF STD 1218	017262	00 0000
024567	STDEST	160400* CONST, BITS 8, 13, 14 AND 15	017263	160400
024570		RESERV*1	017264	000000
024571	I0TAMAT	0*AIMAT	017265	005000
024572	I0TRUNT	0*RUNENT	017266	005247
024573	N00P1	504700	017267	504700
024574	CONTINUE2	ENTAL*BEQUZ0 STR ADDR TO RECYCLE	017270	12 1466
024575		ADDALK*7776 SUBTRACT 1 FROM ENTRY	017271	71 7776
024576		JP*BEQUZ0+4	017272	34 1472
024577		IRJP*I0TAMAT REF AIMAT	017273	30 7265
024600	CORRECT	JP*CK0UT+5	017274	34 1413

CHANGE 7 8-1565

TABLE 8-73 PROGRAM LISTING  
 NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1566	024601	CONTINUE1 RJP*STCHAR JP TO SET ALL CW	017275	76 6105
	024602	RJP*REICR RESET ICR PER ICRSIZE	017276	76 6400
	024603	CHANN0 ENTALB*CHTBL ENT CHAN NO	017277	13 0000
	024604	ENTAU*U12MSK 777700	017300	10 7111
	024605	SLSU*7315 MOD CHAN	017301	04 7315
	024606	STRAL*7315 AND RESTR	017302	44 7315
	024607	SLSU*7321 MOD CHAN	017303	04 7321
	024610	STRAL*7321 AND RESTR	017304	44 7321
	024611	SLSU*7322 MOD CHAN	017305	04 7322
	024612	STRAL*7322 AND RESTR	017306	44 7322
	024613	SLSU*7326 MOD CHAN	017307	04 7326
	024614	STRAL*7326 AND RESTR	017310	44 7326
	024615	SLSU*7327 MOD CHAN	017311	04 7327
	024616	STRAL*7327 AND RESTR	017312	44 7327
	024617	SLSU*7333 MOD CHAN	017313	04 7333
	024620	STRAL*7333 AND RESTR	017314	44 7333
	024621	SIN*XX SET ACT CHAN K	017315	0001 00
	024622	ENTAU*CHAN+16 040000	017316	10 7205
	024623	RJP*DELAY ALLOW TIME FOR FALSE IDR+IDA	017317	76 0314
	024624	RJP*REGACK JP TO CK CONST REQ OR ACK	017320	76 0271
	024625	INSTP*XX TERM IN	017321	0015 00
	024626	SOUT*XX SET ACT CHAN K	017322	0002 00
	024627	ENTAU*CHAN+16 040000	017323	10 7205
	024630	RJP*DELAY DELAY FOR FALSE IDR+IDA	017324	76 0314
	024631	RJP*REGACK CK FALSE ODR+ODA	017325	76 0271
	024632	OUTSTP*XX TERM OUT	017326	0016 00
	024633	SEXP*XX SET ACT CHAN K	017327	0003 00
	024634	ENTAU*CHAN+16 040000	017330	10 7205
	024635	RJP*DELAY DELAY FOR FALSE IDR+IDA	017331	76 0314
	024636	RJP*REGACK CK FALSE IFR+EFA	017332	76 0271
	024637	EXPSTP*XX TERM EXP	017333	0017 00

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CHANGE 7

TABLE 8-73 PROGRAM LISTING  
 NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

SEONO	LABEL	STATEMENT	ADDRESS	INSTRUCT
024640		BJP*7277	017334	73 7277
024641		RJP*TERMAL TERMINATE ALL ACTIVE CHANNELS	017335	76 0000
024642		IJP*I02 EXIT	017336	55 0137
024643	I0TAPTCH	005247	017400	005247
024644	*			
024645	*			
024646	INK4	SIL*0 INTERCOMPUTER MOVE ROUTINE	017500	5034 00
024647		SKP*02 TRANSFER TO BANK 1 OR BANK 0	017501	5050 02
024650		JP*LBK+2 BANK 1	017502	34 7504
024651		JP*BANK0 BANK 0	017503	34 7521
024652		ENTICR+1	017504	5072 01
024653	MDPIER1	ENTB*MDTBL1A FETCH TABLE ADDRESS	017505	32 7651
024654		ENTAL*MDTBL2A FETCH TABLE CONSTANT	017506	12 7741
024655		ENTSR*10 REFERENCE STACK 0	017507	5073 10
024656		STRALB*0 STORE CONSTANT	017510	45 0000
024657		ENTSR*0 REFERENCE CURRENT STACK	017511	5073 00
024660		ISK*MDPIER1 INCREMENT TO NEXT ADDRESS	017512	57 7505
024661		ISK*MDPIER1+1 INCREMENT TO NEXT CONSTANT	017513	57 7506
024662		ISK*MDTBL3 IS TABLE READ	017514	57 7501
024663		JP*MDPIER1 NO, GO TO NEXT CONSTANT	017515	34 7505
024664		ENTAL*PEA BANK 1 PROGRAM TERMINAL ADDRESS	017516	12 7557
024665		ENTAU*P0D BANK 1 PROGRAM INITIAL ADDRESS	017517	10 7554
024666		JP*LBK+3	017520	34 7523
024667	BANK0	ENTAL*PEA+1 BANK 0 PROGRAM TERMINAL ADDRESS	017521	12 7500
024670		ENTAU*P0D+1 BANK 0 PROGRAM INITIAL ADDRESS	017522	10 7555
024671		ENTSR*10	017523	5073 10
024672		STRAL*704	017524	44 0704
024673		STRAU*705	017525	46 0705
024674		ENTAU*CZER0 CLEAR AU	017526	10 5375
024675		ENTSR*0	017527	5073 00
024676		ENTAL*ICH INTERCOMPUTER CHANNEL NUMBER	017530	12 7556

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1567

SEGNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1568		024677 STOP*10 INSPECT/CHANGE CHANNEL NUMBER	017531	5056 10
		024700 SLCL*MUD+1	017532	52 7552
		024701 STRAL*ICH	017533	44 7556
		024702 ENTAL*YIP	017534	12 7542
		024703 SLCL*MUD	017535	52 7551
CHANGE 7		024704 SLSET*ICH	017536	51 7556
		024705 STRAL*YIP STORE CHANNEL NUMBER	017537	44 7542
		024706 ADDAL*SAP	017540	14 7553
		024707 STRAL*YAP	017541	44 7545
	YIP	024710 OUT*0 OUTPUT PROGRAM	017542	5012 00
		024711 027400	017543	027400
		024712 000701	017544	000701
	YAP	024713 SKP0IN*0	017545	5022 00
		024714 JP*YAP	017546	34 7545
		024715 STOP*40	017547	5056 40
		024716 JP*LOK=1	017550	34 7547
	MUD	024717 777700	017551	777700
		024720 000017	017552	000017
	SAP	024721 001000	017553	001000
	P00	024722 040700 BANK 1 INITIAL ADDRESS	017554	040700
		024723 000700 BANK 0 INITIAL ADDRESS	017555	000700
	ICH	024724 000004 CHANNEL NUMBER	017556	000004
	PEA	024725 007402 BANK 1 TERMINAL ADDRESS	017557	007402
		024726 027402 BANK 0 TERMINAL ADDRESS	017560	027402
	M0DTBL3	024727 000007 TABLE SIZE	017561	000007
	M0DTBL1	024730 000712 ADDRESS TABLE	017562	000712
		024731 001250	017563	001250
		024732 001267	017564	001267
		024733 001271	017565	001271
		024734 001274	017566	001274
		024735 001302	017567	001302

TABLE 8-73 PROGRAM LISTING

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

SEGN0	LABEL	STATEMENT	PAGE ADDRESS	0349 INSTRUCT
024736		001311	017570	001311
024737		001326	017571	001326
024740		004611	017572	004611
024741		004612	017573	004612
024742		004613	017574	004613
024743		004614	017575	004614
024744		004616	017576	004616
024745		004623	017577	004623
024746		005003	017600	005003
024747		005205	017601	005205
024750		017265	017602	017265
024751		017266	017603	017266
024752		022006	017604	022006
024753		005252	017605	005252
024754		015342	017606	015342
024755		016414	017607	016414
024756		016430	017610	016430
024757		016444	017611	016444
024760		025510	017612	025510
024761		007400	017613	007400
024762		013063	017614	013063
024763		013123	017615	013123
024764		013672	017616	013672
024765		013705	017617	013705
024766		014330	017620	014330
024767		014361	017621	014361
024770		014630	017622	014630
024771		014733	017623	014733
024772		015224	017624	015224
024773		017400	017625	017400
024774		011675	017626	011675

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEGNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1570		012103	017627	012103
		012140	017630	012140
		012256	017631	012256
		012347	017632	012347
		012414	017633	012414
CHANGE 7		012531	017634	012531
		012723	017635	012723
		013035	017636	013035
		022071	017637	022071
		010074	017640	010074
		010274	017641	010274
		010323	017642	010323
		010427	017643	010427
		010542	017644	010542
		010612	017645	010612
	010653	017646	010653	
	011472	017647	011472	
	011530	017650	011530	
	M0DTBL1A 005223	017651	005223	
	M0DTBL2 400017	017652	400017	
	041252	017653	041252	
		CONSTANT TABLE		
		504700	017654	504700
		504700	017655	504700
		507316	017656	507316
		507315	017657	507315
		405363	017660	405363
		002000	017661	002000
		042256	017662	042256
		042255	017663	042255
		042266	017664	042266
		042265	017665	042265



SEQNO	LABEL	STATEMENT	PAGE ADDRESS	0351 INSTRUCT
025034		041252	017666	041252
025035		041240	017667	041240
025036		507314	017670	507314
025037		507314	017671	507314
025040		045000	017672	045000
025041		045247	017673	045247
025042		342057	017674	342057
025043		507314	017675	507314
025044		507314	017676	507314
025045		507314	017677	507314
025046		507314	017700	507314
025047		507314	017701	507314
025050		507314	017702	507314
025051		045247	017703	045247
025052		507314	017704	507314
025053		507314	017705	507314
025054		507314	017706	507314
025055		507314	017707	507314
025056		507314	017710	507314
025057		507314	017711	507314
025060		507314	017712	507314
025061		507314	017713	507314
025062		507314	017714	507314
025063		045247	017715	045247
025064		507314	017716	507314
025065		507314	017717	507314
025066		507314	017720	507314
025067		507314	017721	507314
025070		507314	017722	507314
025071		507314	017723	507314
025072		507314	017724	507314

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1571

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CHANGE 7

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
025073		507314	017725	007314
025074		507314	017726	007314
025075		504700	017727	004700
025076		507314	017730	007314
025077		507314	017731	007314
025100		507314	017732	007314
025101		507314	017733	007314
025102		507314	017734	007314
025103		507314	017735	007314
025104		507314	017736	007314
025105		507314	017737	007314
025106		507314	017740	007314
025107	M0DTBL2A	340700	017741	040700

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025110	SPECIA	SKP*00	020000	0000 00
025111		RJP*SETSPL PREP SPECIAL TEST	020001	76 0400
025112		REMARK		
025113		REMARK		
025114		REMARK		
025115		REMARK*INCRTC=INTERCOMPUTER/RTC TEST ASSUMES IOTA		
025116		REMARK* HAS BEEN COMPLETED W/PROPER PARMTERS		
025117		REMARK		
025120		REMARK*SET I/C-NORMAL SW TO I/C ON KH AND KL		
025121		REMARK*REMOVE THE RTC DISC SW		
025122		REMARK		
025123		REMARK		
025124		REMARK		

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0353
025125		STOP*40	020002	5056 40		
025126		ENTSR*11	020003	5073 11		
025127	INCRTC	CL*PLAC8 CL ERROR DATA STORE	020004	40 4623		
025130		ENTALK*INCRTC NOTIFY FLT	020005	70 0004		
025131		STRADR*IFault ROUTINE	020006	74 7237		
025132	INCRTR	ENTICR*02 SELECT B2 FOR ERROR FLAGS	020007	5072 02		
025133		ENTBK*00 B2*0 INITIALLY	020010	36 0000		
025134		CL*ALERDS	020011	40 7124		
025135		ENTALK*HICHAN KH T0	020012	70 7227		
025136		ENTSR*0	020013	5073 00		
025137		STRADR*INCOMP INTERCOMPUTER PORTION	020014	74 0536		
025140		STRADR*L0K*2	020015	74 0017		
025141		ENTSR*11	020016	5073 11		
025142		ENTAL*HICHAN HICHAN T0 SP ISOL RTN	020017	12 7227		
025143		ENTAU*U12MSK MASK#777700	020020	10 7111		
025144		ENTSR*0	020021	5073 00		
025145		SLSU*RSMFAA	020022	04 0366		
025146		STRAL*RSMFAA OUT KS	020023	44 0366		
025147		ENTSR*12	020024	5073 12		
025150		STRAL*SPRIA OUT KH	020025	44 1037		
025151		ENTSR*10 BANK 0	020026	5073 10		
025152		CL*15 CLR RTCM INC ADR T0 AVOID OVERFL0	020027	40 0015		
025153		ENTSR*00 BANK 1	020030	5073 00		
025154		IRJP*STINKR STORE STOPS IN INT ENTS	020031	30 1116		
025155		RIL RIL	020032	5030 00		
025156		ENTALK*3777 DELAY 1024 + US IN PR0G	020033	70 3777		
025157		ADDALK*7770 T0 RECEIVE ANY FALSE SP INTS	020034	71 7776		
025160		JPALNZ*L0K=1	020035	63 0034		
025161		SIL SIL	020036	5034 00		
025162		ENTSR*11	020037	5073 11		
025163		ENTAU*BITDAT+1 AU#777777	020040	10 4615		

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1573

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
025164		ENTSR*12	020041	5073 12
025165		ENTAL*RTC0VF-1 RTC OVERFLOW IJP	020042	12 0411
025166		ENTSR*10	020043	5073 10
025167		STRAU*15 777777 TO RTC INC	020044	46 0015
025170		STRAL*13 RTC0VF ENT ADR	020045	44 0013
025171		ENTSR*00	020046	5073 00
025172		RIL RIL	020047	5030 00
025173		ENTALK*3777 DELAY 1024+US	020050	70 3777
025174		ADDALK*7776	020051	71 7776
025175		JPALNZ*L0K=1	020052	63 0051
025176		ENTALK*3000 INSURE ENOUGH TIME	020053	70 3000
025177		ADDALK*7776	020054	71 7776
025200		JPALNZ*L0K=1	020055	63 0054
025201		IRJP*RECORD RECORD ERROR-RTC 0VF NOT RCVD, 0	020056	30 1117
025202	RTCA	ENTBKB*01 ADV COUNT	020057	37 0001
025203		SIL	020060	5034 00
025204		ENTSR*10	020061	5073 10
025205		ENTAL*15 CONTENTS OF RTC INC ADR IN AL	020062	12 0015
025206		ENTAU*14 CONTENTS OF RTC COMP ADR IN AU	020063	10 0014
025207		ENTSR*00	020064	5073 00
025210		CMAL*ZER0 WAS RTC INC TO 0?	020065	02 1120
025211		JPEG*L0K+4 YES CONT	020066	61 0072
025212		IRJP*RECORD RECORD ERROR-INC ADR NOT=0, 1	020067	30 1117
025213		ENTSR*11	020070	5073 11
025214		STRAL*PLAC0 SAVE VALUE	020071	44 4623
025215		ENTBKB*01 ADV COUNT	020072	37 0001
025216		CMAL*BITDAT+1 RTC NOT INC AT ALL?	020073	02 4615
025217		JPN0T*L0K+3 NO-C0NT	020074	63 0077
025220		ENTSR*0	020075	5073 00
025221		IRJP*RECORD RECORD ERROR-INC ADR NO INC,2	020076	30 1117
025222		ENTBKB*01 ADV COUNT	020077	37 0001

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEONO	LABEL	STATEMENT	ADDRESS	INSTRUCT
			PAGE	0355
025223		ENTSR*11	020100	5073 11
025224		STRAU*PLAC4 RTC MON (COMPARE< ADR CONTENTS	020101	46 7250
025225		ENTAL*PLAC4	020102	12 7250
025226		CMAL*STOPAA RTC MON LOC INCR?	020103	02 7250
025227		JPEG*LOBK+3 NO-CONT	020104	61 0107
025230		ENTSR*0	020105	5073 00
025231		IRJP*RECORD RECORD ERROR=ADDR 14 WAS INC, 3	020106	30 1117
025232		ENTBKB*01 ADV COUNT	020107	37 0001
025233		IRJP*HONOR HONOR ALL INTS	020110	30 1120
025234		IRJP*STINKR STORE STOPS IN INT ENTS	020111	30 1110
025235		SIL SIL	020112	5034 00
025236		ENTAU*RTCN0T=1 NO RTC REQ ENABLE INST IJP	020113	10 0413
025237		ENTSR*11	020114	5073 11
025240		ENTAL*STOPC STOP*45 IN AL	020115	12 7245
025241		ENTSR*10	020116	5073 10
025242		STRAL*14 RTC MON WD#505645	020117	44 0014
025243		ADDALK*7775	020120	71 7775
025244		STRAL*15 RTC INC WD#505643	020121	44 0015
025245		STRAU*12 RTC MON INT ENT ADR	020122	46 0012
025246		ENTSR*11	020123	5073 11
025247		ENTAU*ALERDS DISPLAY FLAGS	020124	10 7124
025250		ENTSR*0	020125	5073 00
025251		RIL RIL	020126	5030 00
025252		RJP*SEC8TH DELAY 1024 US	020127	76 0403
025253	RTCB	SKP*40 INT NOT RCVD=CONT	020130	5050 40
025254		IRJP*RECORD RECORD ERROR=MON RCVD W/O RTC, 4	020131	30 1117
025255		ENTBKB*01 ADV COUNT	020132	37 0001
025256		SIL SET INT LOCKOUT	020133	5034 00
025257		ENTAU*RTCM0K=1 RTC MON OK IJP FOR INT ENT	020134	10 0415
025260		ENTSR*11 =	020135	5073 11
025261		ENTAL*STOPC STOP*45	020136	12 7245

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1575

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
025262		ENTSR*10	020137	5073 10
025263		STRAL*14 RTC MON WD#505645	020140	44 0014
025264		ADDALK*7775	020141	71 7775
025265		STRAL*15 RTC INC WD#505643	020142	44 0015
025266		STRAU*12 RTC BK IJP IN INT ENT	020143	46 0012
025267		ENTSR*11	020144	5073 11
025270		ENTAU*ALERDS DISPLAY ERROR FLAGS	020145	10 7124
025271		ENTSR*0	020146	5073 00
025272		RTC ENABLE RTC REQUEST	020147	5014 00
025273		RIL RIL	020150	5030 00
025274		ENTALK*3777 DELAY 1024 US	020151	70 3777
025275		ADDALK*7776	020152	71 7776
025276		JPALNZ*L0K=1	020153	63 0152
025277		ENTALK*3000 INSURE ENOUGH TIME	020154	70 3000
025300		ADDALK*7776	020155	71 7776
025301		JPALNZ*L0K=1	020156	63 0155
025302		IRJP*RECORD RECORD ERROR=RTC MON NOT RCVD, 5	020157	30 1117
025303	RTCC	ENTBKB*01 ADV COUNT	020160	37 0001
025304		SIL SIL	020161	5034 00
025305		ENTSR*10	020162	5073 10
025306		ENTAL*15 RTC INC WD IN AL	020163	12 0015
025307		ENTAU*14 RTC MON WD IN AU	020164	10 0014
025310		STRAU*15 RTC INC*RTC MON	020165	46 0015
025311		ENTSR*00	020166	5073 00
025312		CMAL*ST0PD WAS RTC INCR WD INCRD?#	020167	02 0447
025313		JPEG*L0K+2 YES-C0NT	020170	61 0172
025314		IRJP*RECORD RECORD ERROR=RTC INC ADR WRNG, 6	020171	30 1117
025315		ENTBKB*01 ADV COUNT	020172	37 0001
025316		ENTSR*11	020173	5073 11
025317		STRAL*PLACB SAVE RTC INC WD	020174	44 4623
025320		CMAL*ST0PB RTC NOT INCR AT ALL?	020175	02 7244

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
025321		JPN0T*L0K+3 NO-C0NT	020176	63 0201
025322		ENTSR*0	020177	5073 00
025323		IRJP*RECORD RECORD ERROR=RTC INC ADR NOT INC, 7	020200	30 1117
025324		ENTBKB*01 ADV COUNT	020201	37 0001
025325		ENTSR*11	020202	5073 11
025326		STRAU*PLAC4 RTC MON (COMPARE< ADR CONTENTS	020203	46 7256
025327		ENTAL*PLAC4	020204	12 7256
025330		CMAL*ST0PC RTC MON LOC INCR?	020205	02 7245
025331		JPEQ*L0K+3	020206	61 0211
025332		ENTSR*0	020207	5073 00
025333		IRJP*RECORD RECORD ERROR=ADR 14 WAS INC, 8	020210	30 1117
025334		ENTBKB*01 ADV COUNT	020211	37 0001
025335		ENTAU*RTCREM RTC REQ FF IJP	020212	10 0410
025336		ENTSR*10	020213	5073 10
025337		STRAU*12 TO RTC MON INT ENT	020214	46 0012
025340		ENTSR*00	020215	5073 00
025341		ENTAU*ZER0	020216	10 1120
025342		SKP*00 NOOP	020217	5050 00
025343		RIL RIL	020220	5030 00
025344		RJP*SECSTH DELAY 1024 US	020221	76 0403
025345		SIL SIL	020222	5034 00
025346		JPAUZ*L0K+2 NO INT RCVD? TRUE-C0NT	020223	60 0225
025347		IRJP*RECORD RECORD ERROR=RTC MON REQ FF SET, 9	020224	30 1117
025350		ENTBKB*01 ADV COUNT	020225	37 0001
025351		IRJP*STINKR STORE STOPS IN INT ENTS	020226	30 1116
025352		ENTAL*RTCWDC 600000	020227	12 0445
025353		ENTAU*RTCWDD 600007	020230	10 0446
025354		ENTSR*10	020231	5073 10
025355		STRAL*15 RTC#600000	020232	44 0015
025356		STRAU*14 MON#600007	020233	46 0014
025357		ENTSR*00	020234	5073 00

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

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CHANGE 7

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
025360		ENTAL*RTCCBB	020235	12 0425
025361		ENTAU*RTCCCC	020236	18 0443
025362		ENTSR*10	020237	5073 10
025363		STRAL*RTCCC RTC ENT ADDR	020240	44 7773
025364		STRAU*12	020241	46 0012
025365		ENTSR*00	020242	5073 00
025366		RIL RIL	020243	5030 00
025367		RTC EN RTC	020244	5014 00
025370		ENTALK*00 DELAY	020245	70 0000
025371		ADDALK*01	020246	71 0001
025372		ENTSR*11	020247	5073 11
025373		CMAL*CHAN+12	020250	02 7201
025374		JPEG*L0K+3	020251	01 0254
025375		JP*L0K+4	020252	54 0256
025376		ENTSR*0	020253	5073 00
025377		IRJP*RECORD RECORD ERROR=NO RTC, 10	020254	50 1117
025400	RTCCB	ENTBKB*01 ADV COUNT	020255	57 0001
025401		ENTAL*RTCCDD	020256	12 0420
025402		ENTSR*10	020257	5073 10
025403		STRAL*RTCCC	020260	44 7773
025404		ENTSR*00	020261	5073 00
025405		ENTALK*00	020262	70 0000
025406		ENTSR*11	020263	5073 11
025407		ENTAU*CHAN+20	020264	10 7207
025410		ENTSR*10	020265	5073 10
025411		STRAL*15 RTC#000000	020266	44 0010
025412		STRAU*14 MON#200000	020267	46 0014
025413		ENTSR*00	020270	5073 00
025414		RJP*RTCEN EN RTC /DELAY	020271	70 0432
025415		SKP*40 IF RTCM=ERR	020272	5050 40
025416	RTCCD	IRJP*RECORD RECORD ERROR=RTC, 11	020273	50 1117

TABLE 8-73 PROGRAM LISTING

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A



SEGN0	LABEL	STATEMENT	ADDRESS	INSTRUCT
025417		ENTBKB*01 ADV COUNT	020274	37 0001
025420		ENTAL*RTCCE	020275	12 0427
025421		ENTSR*10	020276	5073 10
025422		STRAL*RTCCC	020277	44 7773
025423		ENTALK*00	020300	70 0000
025424		LSHAU*01	020301	5045 01
025425		STRAL*15 RTC#000000	020302	44 0015
025426		STRAU*14 MON#400000	020303	46 0014
025427		ENTSR*00	020304	5073 00
025430		RJP*RTCEN	020305	76 0432
025431		SKP*40	020306	5050 40
025432	RTCCE	IRJP*RECORD RECORD ERROR=RTC, 12	020307	30 1117
025433		ENTBKB*01	020310	37 0001
025434		ENTAL*RTCCFF	020311	12 0430
025435		ENTSR*10	020312	5073 10
025436		STRAL*RTCCC	020313	44 7773
025437		ENTSR*00	020314	5073 00
025440		ENTALK*00	020315	70 0000
025441		ENTSR*11	020316	5073 11
025442		ENTAU*CHAN+20	020317	10 7207
025443		ENTSR*10	020320	5073 10
025444		STRAL*14 MON#000000	020321	44 0014
025445		STRAU*15 RTC#200000	020322	46 0015
025446		ENTSR*00	020323	5073 00
025447		RJP*RTCEN	020324	76 0432
025450		SKP*40	020325	5050 40
025451	RTCCF	IRJP*RECORD RECORD ERROR=RTC, 13	020326	30 1117
025452		ENTBKB*01	020327	37 0001
025453		ENTAL*RTCCGG	020330	12 0431
025454		ENTSR*10	020331	5073 10
025455		STRAL*RTCCC	020332	44 7773

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEONO	LABEL	STATEMENT	ADDRESS	INSTRUCT
025456		ENTALK*00	020333	70 0000
025457		LSHAU*01	020334	0045 01
025460		STRAL*14 MON#000000	020335	44 0014
025461		STRAU*15 RTC#400000	020336	46 0015
025462		ENTSR*00	020337	0073 00
025463		RJP*RTCEN	020340	76 0432
025464		SKP*40	020341	0050 40
025465	RTCCG	IRJP*RECORD RECORD ERROR=RTC, 14	020342	00 1117
025466		ENTBKB*01	020343	07 0001
025467		IRJP*HONOR HONOR ALL INTS	020344	00 1120
025470		ENTSR*11	020345	0073 11
025471		ENTAL*ALERDS ANY ERRORS?	020346	12 7124
025472		ENTSR*0	020347	0073 00
025473		JPALZ*SPRIO NO-TEST SP INT PRIORITY	020350	01 0403
025474		IRJP*STINKR STORE STOPS IN INT ENTS	020351	00 1110
025475		ENTALK*3776 PREP RTC INC REG	020352	70 0770
025476		ENTAU*RSMFB=1 RSMFLT INT IJP	020353	10 0423
025477		ENTSR*10	020354	0073 10
025500		STRAL*15	020355	44 0015
025501		STRAU*11 TO RSMFLT INT ENT	020356	46 0011
025502		ENTSR*00	020357	0073 00
025503		IRJP*TERML CLR ALL ACTIVES	020360	00 1121
025504		ENTSR*11	020361	0073 11
025505		ENTAU*PLAC8 DISPLAY RTC INC DATA ERROR	020362	10 4023
025506		ENTAL*ALERDS DISPLAY ERROR FLAGS	020363	12 7124
025507		ENTSR*0	020364	0073 00
025510		SXL IGNORE EIRS	020365	0036 00
025511	RSMFAA	OUT*KH ODA	020366	0012 00
025512		0*CKWD+2 INTER-COMPUTER CHAN	020367	017103
025513		0*CKWD TO CLR RESUME W/ NO IDA AVAILABLE	020370	017101
025514		RIL RIL	020371	0030 00

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NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEGN0	LABEL	STATEMENT	ADDRESS	INSTRUCT
025515	RTCWIC	WTFI WAIT TO RCVE RSMFLT INT	020372	5024 00
025516		STOP*40 ERROR STOP IF NO RSMFLT INT	020373	5056 40
025517		NO=0P	020374	5047 00
025520		ENTSR*11	020375	5073 11
025521		ENTAU*PLACB	020376	10 4623
025522		ENTSR*0	020377	5073 00
025523		STOP*40 ERROR STOP	020400	5056 40
025524		NO=0P	020401	5047 00
025525		RESERV*1	020402	000000
025526		REMARK*AL CONTAINS BITS SET TO FLAG ERRORS		
025527		REMARK* 0 RTC OVERFLOW INT NOT RECEIVED		
025530		REMARK* 1 RTC 777777 NOT INCR TO 000000		
025531		REMARK* 2 RTC 777777 NOT INCR AT ALL		
025532		REMARK* 3 RTC MON ADR WAS INCR		
025533		REMARK* 4 RTC MON RCVD W/O RTC REQ ENABLE		
025534		REMARK* 5 RTC MON INT NOT RECEIVED		
025535		REMARK* 6 RTC INC ADR NOT PROPERLY INCR		
025536		REMARK* 7 RTC INC ADR NOT INCR AT ALL		
025537		REMARK* 8 RTC MON ADR WAS INCR		
025540		REMARK* 9 RTC REQ FF NOT CLRD BY RTC MON		
025541		REMARK* 10 NO RTC/MON 000007 /RTC 000000		
025542		REMARK* 11 RTC/RTC 000000/MON 200000		
025543		REMARK* 12 RTC / MON 400000 / RTC 000000		
025544		REMARK* 13 RTC / MON 000000 / RTC 200000		
025545		REMARK* 14 RTC / MON 000000 / RTC 400000		
025546		REMARK*AU CONTAINS THE INCORRECT RTC INC VALUE		
025547	SECSTH	0*0 ENTRY	020403	00 0000
025550		ENTALK*3777 DELAY ABOUT	020404	70 3777
025551		ADDAEK*7776 1024 US	020405	71 7776
025552		JPALNZ*L0K=1	020406	63 0405
025553		IJP*SECSTH EXIT	020407	55 0403

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

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SEGNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	
8-1582	025554	RTCREM	ENTAU*12	FØR INT ENT ADR	020410 10 0012
	025555		IJP*RTCØVK	FØR RTC ØVF INT ENT ADR	020411 55 7764
	025556	RTCØVF	JP*RTCA	RTC ØVF ØK, RETURN	020412 34 0057
	025557		IJP*RTCMØT	FØR RTC MØN INT ENT ADR	020413 55 7763
	025560	RTCNØT	JP*RTCB+1	RTC MØN WHEN NØ RTC INST, RECORD	020414 34 0131
	025561		IJP*RTCØM	FØR RTC MØN INT ENT ADR	020415 55 7762
	025562	RTCMØK	JP*RTCC	RTC MØN ØK, RETURN	020416 34 0100
	025563		IJP*SPI12A	FØR RTC MØN ENT ADR	020417 55 7761
	025564	SPI12B	JP*INCØMV	SP PRIØ CK ØK	020420 34 0514
	025565		IJP*SPI13C	FØR RTC ØVFLØ ENT ADR	020421 55 7760
	025566	SPI13D	JP*INCØMV-2	SP PRIØ WRØNG	020422 34 0512
	025567		IJP*RSMPAB	FØR RSMFLT INT ENT	020423 55 7757
	025570	RSMPB	JP*RTCHIC+6	RSMFLT INT RCVD	020424 34 0400
	025571	RTCCØB	Ø*RTCCB		020425 020255
	025572	RTCCDD	Ø*RTCCD		020426 020273
	025573	RTCCEE	Ø*RTCCE		020427 020307
	025574	RTCCFF	Ø*RTCCF		020430 020320
	025575	RTCCGG	Ø*RTCCG		020431 020342
	025576	RTCEN	Ø*Ø	ENTRY	020432 00 0000
	025577		RIL	RIL	020433 5030 00
	025600		RTC	ENABLE RTC	020434 5014 00
	025601		ENTALK*ØØ	DELAY	020435 70 0000
	025602		ADDALK*Ø1		020436 71 0001
	025603		CMAL*RTCWD1		020437 02 0444
	025604		JPEØ*LØK+2		020440 61 0442
	025605		JP*LØK-3		020441 34 0430
	025606		IJP*RTCEN	EXIT	020442 55 0432
	025607	RTCCCC	IJPEI*RTCCC	FØR RTCM ENT ADR	020443 54 7773
	025610	RTCWD1	000500		020444 000500
	025611	RTCWDC	000000		020445 000000
	025612	RTCWDD	000007		020446 000007

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEONO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0363
025613	STOPD	STOP*46 COMPARE	020447	0056 46		
025614	SETSPL	0*0 ENTRY	020450	00 0000		
025615		IRJP*TERML CLR ALL ACTIVES	020451	30 1121		
025616		IRJP*HONOR HONOR ALL INTS	020452	30 1126		
025617		IRJP*SETRES SET ALL RESUMES	020453	30 1122		
025620		ENTSR*10 BANK0	020454	0073 10		
025621		CL*15 CLEAR RTC INC ADR / I/C RTC TEST	020455	40 0010		
025622		ENTSR*00 BANK1	020456	0073 00		
025623		SIL SIL	020457	0034 00		
025624		ENTALK*00 CL AL	020460	70 0000		
025625		ENTAU*ZERO	020461	10 1120		
025626		IJP*SETSPL EXIT	020462	05 0400		
025627	SPRI0	IRJP*HONOR HONOR ALL INTS	020463	30 1126		
025630		IRJP*STINKR STORE STOPS IN INT ENTS	020464	30 1116		
025631		SIL SET INT LOK08	020465	0034 00		
025632		ENTSR*11	020466	0073 11		
025633		ENTAL*BITDAT+1 PREP RTC MON INT	020467	12 4010		
025634		ENTSR*10 AND RTC OVERFLOW INT	020470	0073 10		
025635		STRAL*14	020471	44 0014		
025636		ADDALK*7776	020472	71 7776		
025637		STRAL*15	020473	44 0010		
025640		ENTSR*00	020474	0073 00		
025641		ENTAU*SPI130-1	020475	10 0421		
025642		ENTAL*SPI120-1	020476	12 0417		
025643		ENTSR*10	020477	0073 10		
025644		STRAL*12 RTC MON 1ST	020500	44 0012		
025645		STRAU*13 RTC OVF 2ND	020501	40 0013		
025646		ENTSR*00	020502	0073 00		
025647		RTC ENABLE RTC	020503	0014 00		
025650		RJP*SECSTH ALLOW TIME FOR	020504	70 0403		
025651		RJP*SECSTH BOTH INTS TO BE REALIZED	020505	70 0403		

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEONO	LABEL	STATEMENT	ADDRESS	INSTRUCT
025652		RIL RIL	020506	0030 00
025653		ENTALK*3000 WAIT TO RECEIVE 1ST INT	020507	70 3000
025654		ADDALK*7776	020510	71 7776
025655		JPALNZ*L0K=1	020511	03 0510
025656		STOP*40 ERROR STOP=2ND WAS 1ST	020512	0056 40
025657		N0=0P	020513	0047 00
025660	INCOMV	IRJP*H0N0R H0N0R ALL INTS	020514	30 1120
025661		ENTSR*11	020515	0073 11
025662		CL*PLAC4 CLR 1ST TIME THRU FLAG	020516	40 7256
025663		ENTAU*NTDSTD SET OUTPUT CWS ACCORDING TO	020517	10 7262
025664		ENTSR*0	020520	0073 00
025665		ENTAL*INC0MD*2 BUFFER MODE	020521	12 0636
025666		ADDALK*01 +1 IF NTD8/1219	020522	71 0001
025667		JPAUP*L0K*2 +2 IF STD1218	020523	04 0525
025670		ADDALK*01	020524	71 0001
025671		STRAL*INC0MD*1	020525	44 0635
025672		ENTSR*11	020526	0073 11
025673		ENTAL*H0BCP	020527	12 7230
025674		ENTSR*0	020530	0073 00
025675		STRADR*INC0MA	020531	74 0504
025676		ENTICR*02 02#0 FOR EACH CHAN	020532	0072 02
025677		ENTBK*00	020533	36 0000
025700		ENTSR*11	020534	0073 11
025701		CL*ALERDS CLR ERR FLG L0C	020535	40 7124
025702	INCOMP	ENTAL*HICHAN	020536	12 7227
025703		ENTAU*U12MSK 777700	020537	10 7111
025704		ENTSR*0	020540	0073 00
025705		SLSU*INC0MD	020541	04 0634
025706		STRAL*INC0MD 0UT	020542	44 0634
025707		STRAL*INC0MH 0UT	020543	44 0720
025710		SLSU*INC0MB	020544	04 0000

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CHANGE 7

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0365
025711		STRAL*INC0MB IN	020545	44 0600		
025712		STRAL*INC0MC IN	020546	44 0631		
025713		SLSU*INC0ME	020547	04 0644		
025714		STRAL*INC0ME SKPNR	020550	44 0644		
025715		STRAL*INC0MF+1 SKPNR	020551	44 0651		
025716		STRAL*INC0MI SKPNR	020552	44 0737		
025717		STRAL*INC0MJ+5 SRPNR	020553	44 0750		
025720		SLSU*INC0MF	020554	04 0650		
025721		STRAL*INC0MF SRSM	020555	44 0650		
025722		STRAL*INC0MJ SRSM	020556	44 0743		
025723		SLSU*INC0MG	020557	04 0650		
025724		STRAL*INC0MG SKP0IN	020560	44 0655		
025725		IRJP*TERML CLR ALL ACTIVES	020561	30 1121		
025726		IRJP*CLRIN CLR INPUT AREA	020562	30 1125		
025727		ENTSR*11	020563	5073 11		
025730	INC0MA	ENTAL*H0BCP STORE OUT BUF CW	020564	12 7230		
025731		ENTSR*0	020565	5073 00		
025732		STRADR*L0K+7 TO DETECT FALSE 0DR	020566	74 0575		
025733		ADDALK*01	020567	71 0001		
025734		STRADR*L0K+6	020570	74 0570		
025735		ENTSR*11	020571	5073 11		
025736		ENTAL*CKWD+3	020572	12 7104		
025737		ENTAU*CKWD	020573	10 7101		
025740		ENTSR*10	020574	5073 10		
025741		STRAL*ADR TACH	020575	44 0000		
025742		STRAU*ADR+1 CACH	020576	46 0001		
025743		ENTSR*00	020577	5073 00		
025744	INC0MB	IN*KH SET TO RECEIVE 0DA/IDR	020600	5011 00		
025745		0*PIN+2	020601	017050		
025746		0*PIN	020602	017046		
025747		ENTSR*11	020603	5073 11		

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

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CHANGE 7

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
025750		ENTAU*CHAN WAIT	020604	10 7167
025751		IRJP*DLAY DELAY	020605	30 1123
025752		ENTAL*PIN DATA INPUTTED?	020606	12 7046
025753		ENTSR*0	020607	0073 00
025754		JPALZ*L0K+2 NO-C0NT,YES-ERR0R	020610	61 0612
025755		IRJP*RECORD RECORD ERR0R=FALSE 0DR SEEN, 0	020611	30 1117
025756		ENTBK0*01 ADV COUNT	020612	37 0001
025757		IRJP*CLRIN CLR INPUT AREA	020613	30 1125
025760		IRJP*STINKR STORE STOPS IN INT ENTS	020614	30 1116
025761		ENTAU*FLRSMF-1 IRJP T0 ENT	020615	10 1007
025762		ENTALK*3777	020616	70 3777
025763		ENTSR*10	020617	0073 10
025764		STRAU*11 RSMFLT INT ENT	020620	40 0011
025765		STRAL*15 RTC # 3777	020621	44 0015
025766		ENTSR*11	020622	0073 11
025767		ENTAU*ALERDS DISPLAY ERR0R FLAGS	020623	10 7124
025770		ENTAL*AUERDS	020624	12 7123
025771		STRAL*FAULTI	020625	44 7230
025772		ENTSR*0	020626	0073 00
025773		IRJP*DISP	020627	30 1124
025774		RIL	020630	0030 00
025775	INC0MC	IN*KH INPUT T0 RCVE DATA/IDRS	020631	0011 00
025776		0*PIN+2 POSS 3WD	020632	017050
025777		0*PIN	020633	017040
026000	INC0MD	OUT*KH OUTPUT I/C T0 GIVE 0DR	020634	0012 00
026001		0*CKWD+1 2WDS /NTDS 0R STD/	020635	017102
026002		0*CKWD	020636	017101
026003		ENTALK*7777 COMPLETE BUFFER	020637	70 7777
026004		ADDALK*7776 POSSIBLE FALSE RSMFLT INT	020640	71 7776
026005		JPALNZ*L0K-1	020641	63 0640
026006		SIL SET INT L.0.	020642	0034 00

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING



SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE
					0367
026007		ENTBKB*01 ADV COUNT	020643	37 0001	
026010	INCOME	SKPNR*KH WAS RESUME RESET?	020644	5057 00	
026011		SKP*40 YES=CONT, NO=ERROR	020645	5050 40	
026012		IRJP*RECORD RECORD ERROR=RESUME NOT SET, 2	020646	30 1117	
026013		ENTBKB*01 ADV COUNT	020647	37 0001	
026014	INCOMF	SRSR*KH TRY PR0G RSM SET	020650	5020 00	
026015		SKPNR*KH RESUME PR0G SET?	020651	5057 00	
026016		SKP*40 YES=CONT, NO=ERROR	020652	5050 40	
026017		IRJP*RECORD RECORD ERROR=SRSR FAILED ALSO, 3	020653	30 1117	
026020		ENTBKB*01 ADV COUNT	020654	37 0001	
026021	INCOMG	SKP0IN*KH OUTPUT TERMINATED?	020655	5022 00	
026022		IRJP*RECORD RECORD ERROR=NOT ENOUGH 0DR/IDR, 4	020656	30 1117	
026023		ENTBKB*01 ADV COUNT	020657	37 0001	
026024		ENTSR*11	020660	5073 11	
026025		ENTAL*PIN+2 WAS A 3RD WD ACCEPTED?	020661	12 7050	
026026		ENTSR*0	020662	5073 00	
026027		JPALZ*L0K+2 NO= CONT, YES=ERROR	020663	01 0600	
026030		IRJP*RECORD RECORD ERROR=T00 MANY 0DRS ACCEPT, 5	020664	30 1117	
026031		ENTBKB*01 ADV COUNT	020665	37 0001	
026032		ENTSR*11	020666	5073 11	
026033		ENTAL*PIN+1 2ND WD RCVD?	020667	12 7047	
026034		ENTSR*0	020670	5073 00	
026035		JPALNZ*L0K+2 YES=CONT, NO=ERR	020671	03 0673	
026036		IRJP*RECORD RECORD ERROR=2ND 0DR NOT, 6	020672	30 1117	
026037		ENTBKB*01 ADV COUNT	020673	37 0001	
026040		ENTSR*11	020674	5073 11	
026041		ENTAL*PIN 1ST WD RCVD?	020675	12 7046	
026042		ENTSR*0	020676	5073 00	
026043		JPALNZ*L0K+2 YES=CONT, NO=ERR	020677	03 0701	
026044		IRJP*RECORD RECORD ERROR=1ST 0DR NOT, 7	020700	30 1117	
026045		ENTBKB*01 ADV COUNT	020701	37 0001	

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

CHANGE 7 8-1587

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
026046		IRJP*TERML CLR ALL ACTIVES	020702	30 1121
026047		IRJP*STINKR STORE STOPS	020703	30 1116
026050		ENTAU*RSMFK0-1 OK IRJP TO ENT	020704	10 1013
026051		ENTALK*3777	020705	70 3777
026052		ENTSR*10	020706	5073 10
026053		STRAU*11 RSMFLT ENT ADR	020707	46 0011
026054		STRAL*15 SET RTC	020710	44 0015
026055		ENTSR*00	020711	5073 00
026056		ENTSR*11	020712	5073 11
026057		ENTAU*ALERDS DISPLAY FLAGS	020713	10 7124
026060		ENTAL*AUERDS	020714	12 7123
026061		STRAL*FAULTI	020715	44 7236
026062		ENTSR*0	020716	5073 00
026063		IRJP*DISP	020717	30 1124
026064	INC0MH	OUT*KH SEND ODA /NO IDA AVAILABLE	020720	5012 00
026065		0*CKWD+1	020721	017102
026066		0*CKWD	020722	017101
026067		RIL RIL	020723	5030 00
026070		ENTALK*7777 DELAY TO RECVE RSMFLT INT	020724	70 7777
026071		ADDALK*7776	020725	71 7776
026072		JPALNZ*L0K-1	020726	63 0725
026073		ENTALK*7777	020727	70 7777
026074		ADDALK*7776	020730	71 7776
026075		JPALNZ*L0K-1	020731	63 0730
026076		ADDALK*01	020732	71 0001
026077		JPALP*L0K-1	020733	65 0732
026100		SIL SIL	020734	5034 00
026101		IRJP*RECORD RECORD ERROR=RSMFLT NOT RCVD, 0	020735	30 1117
026102		ENT0KB*01 ADV COUNT	020736	37 0001
026103	INC0MI	SKPNR*KH RESUME STILL SET? YES=0K	020737	5057 00
026104		IRJP*RECORD RECORD ERROR=SKPNT/NSKP,0	020740	30 1117

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TABLE 8-73 PROGRAM LISTING

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

SEONO	LABEL	STATEMENT	ADDRESS	INSTRUCT
026105		ENTBKB*01 ADV COUNT	020741	37 0001
026106		IRJP*TERML CLR ALL ACTIVES	020742	30 1121
026107	INCOMJ	SRSM*KH PROG SET OF RSM	020743	5020 00
026110		ENTSR*11	020744	5073 11
026111		ENTAU*CHAN+10 ALLOW TIME TO CLR ACK	020745	10 7177
026112		ENTSR*0	020746	5073 00
026113		IRJP*DLAY DELAY	020747	30 1123
026114		SKPNR*KH WAS IT SET?	020750	5057 00
026115		SKP*40 YES=OK,NO=ERR	020751	5050 40
026116		IRJP*RECORD RECORD ERROR=SRSM FAIL,10	020752	30 1117
026117		ENTSR*11	020753	5073 11
026120		ENTAL*PLAC4 1ST TIME THRU?	020754	12 7256
026121		JPALNZ*INCOMT NO-TEST FLAGS	020755	63 0772
026122		ENTALK*7777 YES-SET 2ND TIME FLG	020756	70 7777
026123		STRAL*PLAC4	020757	44 7256
026124		ENTALK*L0CHAN L0CHAN 2ND TIME	020760	70 7220
026125		ENTSR*0	020761	5073 00
026126		STRADR*INCOMP	020762	74 0536
026127		ENTSR*11	020763	5073 11
026130		ENTAL*ALERDS SAVE KH FLAGS	020764	12 7124
026131		STRAL*AUERDS	020765	44 7123
026132		ENTAL*L0BCP	020766	12 7221
026133		ENTSR*0	020767	5073 00
026134		STRADR*INCOMA	020770	74 0564
026135		JP*INCOMP=4 RECYCLE W/KL	020771	34 0532
026136	INCOMT	ENTSR*11	020772	5073 11
026137		ENTAL*ALERDS FLAGS OF KL	020773	12 7124
026140		ENTAU*AUERDS FLAGS FROM KH	020774	10 7123
026141		ENTSR*0	020775	5073 00
026142		JPALNZ*L0K+2 ANY ERRORS?	020776	63 1000
026143		JPAUZ*L0K+2 NO - TEST PRIORITY	020777	60 1001

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING

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SEONO	LABEL	STATEMENT	ADDRESS	INSTRUCT
8-1590		STOP*40 ERROR STOP	021000	5056 40
		RJP*SPRI TEST RSMFLT/RTC PRIORITY	021001	76 1015
		REMARK*ALWKL FLAGS,AUWKH FLAGS		
		REMARK* 0 FLASE ODR SEEN		
		REMARK* 1 FALSE RSMFLT INT		
		REMARK* 2 RESUME NOT RESET ON COMPLETED BUFFER		
		REMARK* 3 SRSM FAILED ALSO		
		REMARK* 4 OUTPUT NOT TERMINATED		
		REMARK* 5 TOO MANY ODRS SENT		
		REMARK* 6 2ND WD NOT RCVD		
		REMARK* 7 1ST WD NOT RCVD		
		REMARK* 8 RSMFLT INT NOT RECEIVED		
		REMARK* 9 SKPNR DID NOT SKIP W/NR		
		REMARK* 10 SRSM FAILED		
		RJP*SETSPL PREP RECYCLE OR STOP	021002	76 0450
		STOP*04	021003	5056 04
		NO-OP	021004	5047 00
		JP*INCRTC RECYCLE	021005	34 0004
		RESERV*01	021006	000000
		IJP*FLRMSF FOR RSMFLT ENT ADR	021007	55 7754
	FLRSMF	IRJP*RECORD RECORD ERROR=RSMFLT,1	021010	30 1117
		IRJP*HONOR HONOR ALL INTS	021011	30 1126
		JP*INC0ME=1 EXIT	021012	34 0643
		IJP*RSMF0K	021013	55 7753
	RSMFK0	JP*INC0MI=1 OK ENTRY/EXIT	021014	34 0730
	SPRI	0*0 ENTRY	021015	00 0000
		IRJP*HONOR HONOR ALL INTS	021016	30 1126
		IRJP*STINKR STORE STOPS	021017	30 1116
		ENTALK*3777	021020	70 3777
		LSHA*22 3777 TO AU	021021	5047 22
		ENTALK*3776	021022	70 3776

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NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0371
020203		ENTSR*10	021023	5073 10		
020204		STRAL*15 RTC TO 3776	021024	44 0015		
020205		STRAU*14	021025	46 0014		
020206		ENTSR*00 MON TO 3777	021026	5073 00		
020207		ENTAU*RSMFA-1 RSMFLT ENT IRJP	021027	10 1001		
020210		ENTAL*RTCA-1 RTCM ENT IRJP	021030	12 1064		
020211		ENTSR*10	021031	5073 10		
020212		STRAU*11 RSMFLT HI PRI	021032	46 0011		
020213		STRAL*12 RTCM LO PRI	021033	44 0012		
020214		ENTSR*00	021034	5073 00		
020215		SIL SET INT L.O.	021035	5034 00		
020216		IRJP*TERML CLR ALL ACTIVES	021036	30 1121		
020217	SPRIA	OUT*KH PROVIDE RSMFLT INT	021037	5012 00		
020220		0*CKWD+1	021040	017102		
020221		0*CKWD	021041	017101		
020222		ENTALK*7777 DELAY	021042	70 7777		
020223		ADDALK*7776	021043	71 7776		
020224		JPALNZ*L0K=1	021044	63 1043		
020225		ADDALK*01	021045	71 0001		
020226		JPALP*L0K=1	021046	65 1045		
020227		ADDALK*7776	021047	71 7776		
020230		JPALNZ*L0K=1	021050	63 1047		
020231		RIL	021051	5030 00		
020232	CLLR	ENTSR*11	021052	5073 11		
020233		ENTAU*CHAN FLAG AU	021053	10 7167		
020234		ENTAL*CHA4 CLR AL	021054	12 7163		
020235		ENTSR*0	021055	5073 00		
020236		STOP*40 ERROR STOP	021056	5056 40		
020237		N0=0P	021057	5047 00		
020240	ZZ	RESERV*01	021060	000000		
020241		IJP*RSMFBA RSMFLT ENT IJP	021061	55 7772		

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

SEGN0	LABEL	STATEMENT	ADDRESS	INSTRUCT
026242	RSMFA	IRJP*HONOR HONOR ALL INTS	021062	30 1126
026243		IJP*SPRI OK=EXIT	021063	55 1015
026244		IJP*RTCMB	021064	55 7755
026245	RTCMA	IRJP*HONOR HONOR ALL INTS	021065	30 1126
026246		JP*CLLR+4 TO STOP	021066	34 1056
026247	BOOTS	IJP*BOOTS+1 REF	021067	55 1070
026250		0*0500 BTSTRP	021070	00 0500
026251		RESERV*1	021071	000000
026252		REMARK		
026253		REMARK*MANUAL I/O TEST/AID		
026254		REMARK		
026255		REMARK*SET AL00=03 TO CHANNEL,START		
026256		REMARK		
026257	MNI01	ENTAU*UP12	021072	10 1130
026260		SLSU*MN1A	021073	04 1106
026261		STRAL*MN1A OUT LOC	021074	44 1106
026262		SLSU*MN1A+3	021075	04 1111
026263		STRAL*MN1A+3 IN LOC	021076	44 1111
026264		SLSU*MN1B	021077	04 1114
026265		STRAL*MN1B OUTOV LOC	021100	44 1114
026266		RJP*HONINT STORE RILS ALLOW EIS	021101	30 1275
026267		ENTSR*11	021102	5073 11
026270		CL*PIN CL 2 IN WDS	021103	40 7046
026271		CL*PIN+1	021104	40 7047
026272		ENTSR*0	021105	5073 00
026273	MN1A	OUT*XX OUT FN,OUTPUT/EF	021106	5012 00
026274		0*BITDAT+3 TACH	021107	014617
026275		0*BITDAT CACH	021110	014614
026276		IN*XX IN FN	021111	5011 00
026277		0*PIN+3 TACH	021112	017051
026300		0*PIN CACH	021113	017046

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TABLE 8-73 PROGRAM LISTING

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

SEONO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0373
026301	MN1B	OUTOV*XX OUTOV FN,ODA/EFA	021114	5026 00		
026302		STOP*04 SET STOP KEY 2 TO STOP	021115	5056 04		
026303	STINKR	0*STINK	021116	016772		
026304	RECORD	0*RCORD0	021117	016166		
026305	ZER0	0	021120	000000		
026306	TERML	0*TERMAL	021121	016060		
026307	SETRES	0*SRSMAL	021122	017030		
026310	DLAY	0*DELAY	021123	010314		
026311	DISP	0*DISP0C	021124	016024		
026312	CLRIN	0*CLPIN W#R	021125	017030		
026313	HONOR	0*HONINT	021126	017007		
026314	I0TXMAT	0*AIMAT	021127	005000		
026315	UP12	777700	021130	777700		
026316	*					
026317	*					
026320	DUALMODE	ENTAU*1232 DUAL MODE TEST	021200	10 1232		
026321		ENTAL*1231	021201	12 1231		
026322		ADDA*1235 ADD 1	021202	20 1235		
026323		STRAU*1232	021203	46 1232		
026324		JPAUZ*L0K+2 IS AU ZER0	021204	60 1200		
026325		ENTALK*7777 NO, SET AL TO ALL 1 8	021205	70 7777		
026326		STRAL*1231	021206	44 1231		
026327		JPAUNZ*L0K+3 IS TEST COMPLETE	021207	62 1212		
026330		JPALNZ*L0K+2 IS TEST COMPLETE	021210	63 1212		
026331		JP*1267 YES, JUMP TO END OF TEST	021211	34 1267		
026332		OUT*3 OUTPUT A WORD	021212	5012 03		
026333		021232	021213	021232		
026334		021231	021214	021231		
026335		IN*3 INPUT A WORD	021215	5011 03		
026336		021234	021216	021234		
026337		021233	021217	021233		

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-73 PROGRAM LISTING

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SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT
026340		SKPIIN*3 COMPUTER MUST BE IN INTERCOMPUTER MODE	021220	5021 03
026341		JP*L0K=1 AND IN DUAL MODE	021221	34 1220
026342		SUBAL*1233 CHECK FOR C-REGISTER ODD ERRORS	021222	16 1233
026343		JPALNZ*1237 JUMP TO ERROR STOP	021223	03 1237
026344		RSHA*22	021224	5043 22
026345		SUBAL*L0K*7 CHECK FOR C-REGISTER EVEN ERRORS	021225	16 1234
026346		JPALNZ*1243 JUMP TO ERROR STOP	021226	03 1243
026347		JP*1200 RECYCLE TEST	021227	34 1200
026350		000000	021230	000000
026351		000000	021231	000000
026352		000000	021232	000000
026353		000000	021233	000000
026354		000000	021234	000000
026355		000000	021235	000000
026356		000000	021236	000000
026357		ENTAU*L0K=6 DISPLAY C-REGISTER ODD ERRORS	021237	10 1231
026360		ENTAL*L0K=5	021240	12 1233
026361		STOP*40	021241	5050 40
026362		JP*1202 RECYCLE TEST	021242	34 1202
026363		ENTAU*1232 DISPLAY C-REGISTER EVEN ERRORS	021243	10 1232
026364		ENTAL*1234	021244	12 1234
026365		STOP*40	021245	5050 40
026366		JP*1202 RECYCLE TEST	021246	34 1202
026367		000077	021247	000077
026370		STRAU*1233 CHANNEL CHANGER FOR I/O INSTRUCTIONS	021250	46 1233
026371		ENTAU*L0K=2	021251	10 1247
026372		ENTAL*1212	021252	12 1212
026373		SLSU*1233	021253	04 1233
026374		STRAL*1212	021254	44 1212
026375		ENTAL*1215	021255	12 1215
026376		SLSU*1233	021256	04 1233

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CHANGE 7

*Error Stop*

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
TABLE 8-73 PROGRAM LISTING



TABLE 8-73 PROGRAM LISTING

SEQNO	LABEL	STATEMENT	ADDRESS	INSTRUCT	PAGE	0375
026377		STRAL*1215	021257	44 1215		
026400		ENTAL*1220	021260	12 1220		
026401		SLSU*1233	021261	04 1233		
026402		STRAL*1220	021262	44 1220		
026403		ENTAL*L0K+5	021263	12 1270		
026404		SLSU*1233	021264	04 1233		
026405		STRAL*L0K+3	021265	44 1270		
026406		JP*1200 EXECUTE TEST	021266	34 1200		
026407		STOP*20 PART 1 OF TEST COMPLETE	021267	5056 20		
026410		OUT*3 OUTPUT BACKWORDS BUFFER	021270	5012 03		
026411		021233	021271	021233		
026412		421234	021272	421234		
026413		STOP*20 PART 2 OF TEST COMPLETE	021273	5056 20		
026414		JP*1212 RESTART TEST	021274	34 1212		
		==TRANSFER TABLE==	021275	017007		
		END OF PROGRAM				

*P=*

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ADDRESS	LABEL	REFERENCES
012320	AOK	012307U
016116	AA	016106S
023273	ABIT2	022603U
023323	ABIT23	023202U, 023221U
023327	ABIT24	023177U, 023223U
023333	ABIT28	023225U
023277	ABIT3	022565U, 022574U, 022606U, 023173U, 023212U
023303	ABIT4	022575U, 022607U, 023213U, 023230U
023307	ABIT5	022636U
023337	ABIT56	022625U, 023265U
023353	ABIT56B	023243U
023343	ABIT57	023254U
023347	ABIT58	023256U
023313	ABIT6	022627U, 022642U, 023250U, 023271U
023317	ABIT7	022643U, 023272U
013150	ACKOUT	016754S
013260	ACKAUT	016715S
004534	ACKUP	002377U
013335	ACTLOC	013301S
013226	ACTLOK	013172S
016640	ADDRESS	016633S, 016636S, 016661U
023770	ADDRESS	023416S, 023466S, 023472S, 023535S, 023541S, 023603S, 023652S, 023656S
		023760S, 023762S, 023764S, 023766S, 024104U
024104	ADDRESS1	024064U, 024066U
003204	ADDSUBAD	001313S, 003205U, 003411U, 003412U
000000	ADR	004370U, 007773U, 010745U, 010774U, 011027U, 011056U, 011111U, 011140U
		011236U, 011403U, 011644U, 013176S, 013220U, 013226U, 013240U, 013305S
		013327U, 013335U, 013347U, 013402U, 013403U, 013566S, 013603U, 013616S
		013624U, 013636U, 013664S, 014022U, 014041U, 014124S, 014223U, 014337S
		014673S, 015260U, 015301U, 015733S, 015756S, 015757S, 016011U, 020575S
		020576S
023747	ADRXLAT	023024S, 023030S, 023034S, 023041S, 023664S, 023767U
016004	AFAULT	007712U, 010002U, 013712U, 014055U, 014062U, 016006U, 016461U, 016470U
		017065U
004361	AFLT	001201U, 004361S, 004365U

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TABLE 8-74 CROSS REFERENCE INDEX

ADDRESS	LABEL	REFERENCES
005041	AIMA10	005040U, 005720U
005045	AIMA11	005043U
005051	AIMA12	005047U
005077	AIMA13	005074U
005104	AIMA16	005441U
005122	AIMA17	005120U
005126	AIMA18	005124U
005131	AIMA19	005127U
005134	AIMA20	005132U
005137	AIMA21	005135U, 005445U
005154	AIMA22	NOT REFERENCED
005157	AIMA29	005143U
005164	AIMA30	005153U, 005177U, 005453U
005176	AIMA31	005147U, 005160U
005200	AIMA32	005156U
005222	AIMA35	005316U
005224	AIMA36	005064U
005060	AIMA38	005056U
005000	AIMAT	002473S, 002477S, 002501S, 002507S, 002513S, 002515S, 002523S, 002527S, 002537S, 002541S, 002562S, 002602S, 002610S, 002612S, 002621S, 002624S, 002632S, 002634S, 002640S, 002643S, 002650S, 002656S, 002663S, 002667S, 002674S, 002701S, 002704S, 002713S, 002720S, 002723S, 002732S, 002737S, 002744S, 002752S, 002757S, 002763S, 002770S, 003056S, 003060S, 003062S, 003064S, 003066S, 003070S, 003072S, 003222S, 003225S, 003230S, 003237S, 003243S, 003256S, 003263S, 003276S, 003304S, 003311S, 003313S, 003320S, 003322S, 003331S, 003335S, 003337S, 003341S, 003344S, 003351S, 003356S, 003363S, 003371S, 003375S, 003401S, 003405S, 003522S, 003534S, 003541S, 003547S, 003553S, 003623S, 004724S, 004731S, 004735S, 004742S, 004746S, 004753S, 005010U, 017265U, 021127U, 022065S, 022161S, 022201U, 022205U, 025650U
005014	AIMAT1	005021U
005015	AIMAT2	005014S
005022	AIMAT3	005020U
005023	AIMAT4	005030U
005024	AIMAT5	005023S
005031	AIMAT6	005027U
005032	AIMAT7	005037U
005033	AIMAT8	005032S

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ADDRESS	LABEL	REFERENCES
005040	AIMAT9	005036U, 005140S, 005636S
005053	AIMATA	005044U
005075	AIMATB	005066U, 005234U
005113	AIMATC	005073U
005207	AIMATD	005050U, 005052U, 005112U, 005121U, 005175U
005235	AIMATE	005057U, 005101U, 005115U, 005125U, 005130U, 005133U, 005136U, 005305U
005370	AIMSAV	005321U, 005364U
017124	ALERDS	022327S, 022332U, 022360S, 022363U, 022477S, 022502U
		010102S, 010125U, 010163S, 010256U, 010331S, 010357U, 010620S, 010642U
		010661S, 011150U, 012147S, 012167U, 012232U, 012243U, 012422S, 012472U
		012503U, 012513U, 013135S, 013201U, 013310U, 013362U, 013372U, 013733S
		014161U, 014247U, 014263U, 014271U, 014304U, 014373S, 014551U, 014602U
		014635S, 014676U, 014721U, 014742S, 014765U, 015234S, 015315U, 015326U
		015330U, 015354S, 015525U, 015527S, 015555U, 015606U, 015627U, 015655U
		015703U, 015737U, 016171U, 016172S, 020011S, 020124U, 020145U, 020346U
		020363U, 020535S, 020623U, 020713U, 020764U, 020773U
014721	ALERQ	014712U
004611	ALL0N	002254S
022400	ALL0NES	022241S, 022247S, 022435U
022413	ALL0NES1	022430U
022417	ALL0NES2	022414U
022427	ALL0NES3	022416U
001233	ALL0W	001212U
014621	ALL7S	014426U
003073	ALLRIGHT	003071U
022447	ALLZER0S	022242S, 022250S, 022512U
022461	ALLZER0S1	022473U
022472	ALLZER0S2	022462U
017261	ALPRAM	001304U, 001307S, 010007U, 010016S
007057	ALSAVE	006006S, 006042U, 006200U, 006224U, 006236U, 006407U, 006546U, 006662U
		007027U, 007032U, 007035U, 007040U, 007043U, 007046U, 007051U, 007054U
016204	ALSAVI	016160S, 016164U, 016167S, 016173U, 016176S, 016202U
025013	ALSAVM	022437S, 022444U, 024777S, 025010U, 025017S, 025036U, 025044S, 025057U
005407	ARUT1	025063S
005410	ARUT2	022070U
005411	ARUT3	005407U
		NOT REFERENCED

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TABLE 8-74 CROSS REFERENCE INDEX

ADDRESS	LABEL	REFERENCES
005412	ARUT4	NOT REFERENCED
005413	ARUT5	NOT REFERENCED
005414	ARUT6	022164U
016050	ASTR	016042S
014730	ATIME	010060S, 014731U, 014736U, 014771U
017123	AUERDS	010101S, 010124U, 010132U, 010162S, 010255U, 010263U, 010330S, 010356U
		010434S, 010464U, 010547S, 010575U, 010617S, 010641U, 010660S, 011147U
		012421S, 012512U, 012520U, 012536S, 012617U, 012624U, 012657U, 012730S
		012753U, 012760U, 013004U, 013011U, 013024U, 013200U, 013307U, 013716S
		014160U, 014250S, 014265U, 014270U, 014303U, 015353S, 015526S, 015554U
		015626U, 015654U, 015702U, 015736U, 016162U, 016163S, 020624U, 020714U
		020765S, 020774U
017260	AUPRAM	001303U, 001306S, 010010U, 010015S, 014767U
007717	AURIL	016767S
016770	AURILM	007717U
007060	AUSAVC	006007S, 006043U, 006201U, 006207U, 006225U, 006402U, 006515U
025014	AUSAVE	025000S, 025011S, 025020S, 025037U, 025045S, 025060U, 025064S
007716	AUSIL	016567S
016570	AUSILM	007716U, 016572U
011610	AUTPCK	011572U, 011573S, 011574U, 011575S, 011620U
016425	AUTM0N	007722U, 016426U, 016433U
007722	AUTMH	016424S
013153	AUTS	016676U, 016677S
013144	AUTS1	016730U, 016731S
013263	AUTS2	016732S
013254	AUTS3	016700S
000010	B0	NOT REFERENCED
025137	B00T	022023S, 025140U, 025313U
025165	B00T1	025162U
025312	B00T10	025307U
025210	B00T2	025205U
025231	B00T3	025226U
025254	B00T4	025251U
025264	B00T5	025257U
025273	B00T6	025266U
025276	B00T7	025306U
025305	B00T8	025302U
025310	B00T9	025303U

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ADDRESS	LABEL	REFERENCES
025446	B00TDR0P	025255S, 025464U
025454	B00TDR0P1	025463U
025455	B00TDR0P2	025453S, 025461S
025465	B00TPICK	025265S, 025504U
025474	B00TPICK1	025503U
025475	B00TPICK2	025473S, 025501S
021067	B00TS	021067U
004667	B0M20	002210U, 002221U
000001	B1	NOT REFERENCED
000002	B2	NOT REFERENCED
000003	B3	NOT REFERENCED
000004	B4	NOT REFERENCED
000005	B5	NOT REFERENCED
000006	B6	NOT REFERENCED
000007	B7	NOT REFERENCED
007076	BACK	006373U, 006374U, 006672U, 006674S, 007031U, 007033S
006042	BADFOR	NOT REFERENCED
006543	BADWRT	006536U
002423	BANDIT	002417U, 004625U
017521	BANK0	017503U
025620	BASEADR	023670S, 023675U, 023723U, 023771S, 024113U, 024133U, 024135U, 024223S 024251U, 024322S, 024323U, 024352S, 024353U, 025315S, 025323U, 025334U 025361S, 025365U, 025565U, 025602U
010312	BB	010277S, 010310U
003202	BEANP	003046U, 003157U
001777	BEECHK	001776S, 002002U, 002004S, 002007U
004622	BEE MAX	002005U
001765	BREMIN	001775U
004433	BEEREG	001705U
007234	BEGAT	006313U
007700	BEGIN	NOT REFERENCED
025621	BEGINNING	022237S, 022273U, 022310U, 022402U, 022411U, 022451U, 022457U, 022516U 023055U, 023071U
004576	BELONG	001712S, 001723U, 001740U, 001742S
004574	BENCOUNT	003423S, 003465U
004573	BENERR0R	003421S, 003464U, 003467S, 003520U
011466	BEQUZ0	011347S, 011436S, 011522U, 011524U, 017270U, 017272U
007122	BESAVE	NOT REFERENCED

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ADDRESS	LABEL	REFERENCES
001713	BEWARE	001706S, 001743U, 001745S, 001747U
002256	BIEN	002252S, 002257U, 004611U
004575	BINYARD	002707S, 002710U, 002726S, 002727U, 002740S, 002741U, 002753S, 002754U
		002764S, 002765U
025711	BIT00	024005U, 024026U, 024050U, 024071U, 024742U, 024763U, 025345U, 025416U
		025423U
025712	BIT01	NOT REFERENCED
025713	BIT02	NOT REFERENCED
025714	BIT03	NOT REFERENCED
025715	BIT04	NOT REFERENCED
025716	BIT05	NOT REFERENCED
025717	BIT06	NOT REFERENCED
025720	BIT07	NOT REFERENCED
014614	BITDAT	014412U, 014413U, 014465U, 014472U, 020040U, 020073U, 020467U, 021107U
		021110U
022535	BITSDROP	005412U, 022204U
022525	BITSPICK	005411U, 022203U
026161	BK0JPRUNT	026162U
026160	BK1JPRUNT	026152U
026157	BK1SUBRUT	026154U
006367	BKSPAC	006353S, 006401U, 006464S, 006530S, 006537S, 007163U, 007164U
006436	BLACK2	006652S, 007165U, 007166U, 007270U
007061	BLSAVE	006010S, 006011U, 006017S, 006615U, 006724U, 007003U, 007016U
007105	BSAV	006126S
017100	BSAVE	014534S, 014536U, 014707S, 014711U, 016062S, 016103U, 016122S, 016132U
		016774S, 017005U, 017011S, 017026U, 017056S, 017072U
007117	BSAVE1-	NOT REFERENCED
016053	BSTR	016044S
000660	BUFF	006305U, 006306U, 006311U, 006314U, 006317U, 006321U, 006334U, 006335U
		006336U, 006340U, 006345U, 006472U, 006473U, 006476U, 006477U, 006507U
004556	CADD	003604U
004577	COLLECT	001401S, 001425U, 001427S, 001433U, 001435S, 001437U, 001441S, 001445U
		001447S, 001452U, 001454S, 001460U, 001462S, 001464U, 001466S, 001472U
		001474S, 001477U, 001501S, 001505U, 001507S, 001512U, 001514S, 001520U
		001522S, 001527U, 001704S, 001727U, 001731S, 001732U, 001734S, 001750U
007127	COM	006657U, 006660U, 006716S

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CHANGE 7



ADDRESS	LABEL	REFERENCES
004635	COMBACK	000730U
004641	COMBACK1	000745U
004645	COMBACK2	000762U
004524	COMBINE	003437S, 003441S, 003512S, 003514S, 004631U, 004632U
003505	COMMAND	003460U, 003474U
010743	COMPR	010735U
011025	COMPRA	011017U
011040	COMPRAA	011034U, 011043U, 011047U
011047	COMPRAB	011032U
010765	COMPRB	010750U
011107	COMPRC	011101U
011122	COMPRCA	011116U, 011125U, 011131U
011131	COMPRCB	011114U
010756	COMPRD	010752U, 010761U, 010765U
016012	CON	016347S, 016352S, 016355S, 016360S, 016362S
014307	CONAD1	014106U
014312	CONAD2	014114U, 014311U
005354	CONDET	005065U, 005070S, 005076S, 005116U, 005302S, 005611S
005353	CONE	005063U, 005075U, 005416U
011011	CONTO	011007U, 016270S, 016271S
000706	CONTBASI	004630U, 005414U, 005707U
011073	CONTF	011071U, 016273S, 016274S
010713	CONTH	010672U, 010673S, 010675U, 010676S
010722	CONTHA	010724U
010724	CONTI	010711U, 016265S, 016267S
003345	CONTINUE	004755U
017275	CONTINUE1	010267U
017270	CONTINUE2	011471U
022105	CONTINUE3	026156U
007400	CONTPTCH	NOT REFERENCED
024444	CONTROL	022022S, 024445U, 024520U
024520	CONTROL1	024475U
025022	CONTSIZE	022040U, 022214S, 024474U, 024622U, 024673U
017274	CORRECT	011411U, 011412U
007132	COUNT	006727S, 006730U
002542	COUNTDOWN	002540U
002120	CAMEO	001270S, 002303U, 002304U
016155	CC	016135S

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TABLE 8-74 CROSS REFERENCE INDEX

ADDRESS	LABEL	REFERENCES
017242	CCMADR	010742S, 010770U, 011024S, 011052U, 011106S, 011134U, 011405S, 011646S 011667U, 011713S, 011741U, 011745U, 011747U, 011771U, 011775U, 012001U
017241	CDM19B	NOT REFERENCED
015313	CDMFLG	015304U
012134	CDMICW	012122U
015221	CDMIN	010061S, 015222U, 015227U, 015323U
015245	CDMINA	015303U, 016725S, 016735S
015251	CDMINB	016755S
015254	CDMINC	016744S
015260	CDMINO	015237S
015266	CDMINE	015262U, 016756S
015271	CDMINF	016745S, 016764S
015301	CDMING	015240S
015317	CDMINH	015316U, 015331U
015325	CDMINI	015314U
015336	CDMINJ	015307U
012133	CDMTCH	012124U
005351	CFIVE	005117U
006777	CH	007006U
017147	CHA12	017115U
017127	CHA168	017114U
017115	CHA21	016234U
017163	CHA4	010006U, 011475U, 014435U, 014504U, 016501U, 016512U, 016527U, 016544U 016620U, 017116U, 021054U
017116	CHA40	016251U
017114	CHA816	016225U, 016242U
016667	CHACHA	010020S, 016765U
006773	CHACHG	006035U
017167	CHAN	010216U, 010230U, 010242U, 010351U, 011342U, 011414U, 011445U, 011503U 011514U, 011614U, 011657U, 012012U, 012027U, 012177U, 012303U, 012312U 012321U, 012332U, 012475U, 012506U, 012600U, 012621U, 012702U, 013006U 013141U, 013445U, 013504U, 013575U, 013621U, 013633U, 014420U, 014677U 015107U, 015130U, 015141U, 015157U, 015255U, 015272U, 015605U, 015750U 016161U, 016170U, 016177U, 017022U, 017316U, 017323U, 017330U, 020250U 020264U, 020317U, 020604U, 020745U, 021053U
007125	CHAN1	006625S, 006630U
013554	CHANAD	013542S, 013651S

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ADDRESS	LABEL	REFERENCES
013734	CHANG	0137248, 0142528
004452	CHANL	002226U, 002316U, 002361U, 002402U, 002432U, 002605U, 003551U
017277	CHANNO	0163138
012643	CHANPR	012614U, 012713U
012651	CHANPS	012604U
000750	CHEZ	0007338, 0007428, 004635U, 004636U, 004644U
000765	CHEZ1	0007358, 0007448, 0007548, 000755U, 0007618, 004640U, 004641U, 004642U
		004643U
000777	CHEZ2	004645U
007724	CHNPRL	012643U
012644	CHNPRM	007724U
007725	CHNPSL	012651U
012652	CHNPSM	007725U
016205	CHSET	0100238, 016320U
016221	CHSET1	016211U
016227	CHSET2	016213U
016236	CHSET3	016215U
016244	CHSET4	016217U
000000	CHTBL	010105U, 010166U, 010333U, 010437U, 010450U, 010454U, 010552U, 010563U
		010566U, 010623U, 010664U, 010727U, 010732U, 010736U, 011011U, 011014U
		011020U, 011073U, 011076U, 011102U, 011306U, 011366U, 011371U, 011375U
		011566U, 011627U, 011632U, 011636U, 012161U, 012221U, 012456U, 012544U
		012562U, 012677U, 012702U, 012706U, 012736U, 017277U
011406	CKOUT	0113148, 017274U
011375	CKOUTD	011370U, 011374U, 0163018
011417	CKOUTT	0113318, 0113328, 0113358
011430	CKOUTTA	011420U, 011430U
011433	CKOUTTB	0113178
011636	CK0UU	011631U, 011635U, 0163058
011647	CK0UV	0115768, 0116018
004720	CK0VFL	003343U
010566	CKACT4	0105048, 0105078, 0105158, 0105208, 0105268, 0105318, 010554U, 0105558
		010574U, 0162628, 0162638
010577	CKACT5	0105058, 0105108, 0105128, 0105168, 0105218, 0105238, 0105278, 0105328
		0105348, 010556U, 0105578, 010560U, 0105618, 010564U, 0105658
011363	CKADR	011354U, 011363U, 0162778, 0163008
011627	CKADRA	011577U, 0116008, 0163038, 0163048
011353	CKADRR	011326U, 0113278, 0113308, 011333U, 0113348

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TABLE 8-74 CROSS REFERENCE INDEX

ADDRESS	LABEL	REFERENCES
011441	CKCDM	011320U, 011321S, 011322U, 011323S, 011324U, 011325S, 011434U
011453	CKCDMAA	011455U
011455	CKCDMAB	011451U
012111	CKER	012115U, 012130U
012657	CKERR	012650U
012354	CKF0RC	012340S, 012355U, 012410U
012120	CKN0RM	012114U
006500	CKREAD	006510U, 007200U, 007201U
006447	CKS	007167U, 007170U, 007171U, 007271U, 007272U
006101	CKSUM	NOT REFERENCED
006206	CKSUM1	006203S, 006210U, 007150U, 007264U
006443	CKSUM2	006445U
010454	CKTER4	010371S, 010374S, 010402S, 010405S, 010413S, 010416S, 010441U, 010442S 010463U, 016257S, 016260S
010466	CKTER5	010372S, 010375S, 010377S, 010403S, 010406S, 010410S, 010414S, 010417S 010421S, 010443U, 010444S, 010445U, 010446S, 010451U, 010452S
000666	CKWORD	006506S, 006512U
006511	CKWAIT	NOT REFERENCED
017101	CKWD	010305U, 010706U, 010707U, 010714U, 010715U, 010747U, 010751U, 010776U 011004U, 011005U, 011031U, 011033U, 011060U, 011066U, 011067U, 011113U 011115U, 011142U, 011240U, 011242U, 011337U, 011340U, 011406U, 011410U 011442U, 011443U, 011611U, 011612U, 011647U, 011651U, 012007U, 012010U 012274U, 012275U, 012367U, 012370U, 012571U, 012572U, 012575U, 012576U 012751U, 012752U, 012756U, 012757U, 013100U, 013101U, 013145U, 013146U 013154U, 013155U, 013230U, 013255U, 013256U, 013264U, 013265U, 013337U 013431U, 013432U, 013434U, 013435U, 013470U, 013471U, 013473U, 013474U 013572U, 013573U, 013774S, 013776S, 014000S, 014002S, 014006U, 014007U 014051U, 014127U, 014130U, 014132U, 014133U, 014153U, 014154U, 014342U 014343U, 014663U, 014664U, 015012U, 015013U, 015103U, 015104U, 015166U 015167U, 015212U, 015213U, 015215U, 015216U, 015246U, 015247U, 015502U 015503U, 015506U, 015507U, 015575U, 015576U, 015601U, 015602U, 015617U 015620U, 015642U, 015643U, 015645U, 015646U, 015670U, 015671U, 015673U 015674U, 015717U, 015720U, 015723U, 015724U, 016111U, 016523U, 016525U 016540U, 016542U, 017101U, 017102U, 017103U, 017104U, 017253U, 020367U 020370U, 020572U, 020573U, 020635U, 020636U, 020721U, 020722U, 021040U 021041U
017105	CKWDA	011705U, 011706U, 011714U, 012022U, 012054U, 012062U, 012113U, 012277U 012300U, 012372U, 012373U, 015243U, 015244U, 017105U, 017106U, 017107U

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ADDRESS	LABEL	REFERENCES
017110	CKWDB	012470U, 012471U, 012501U, 012502U, 017110U
017253	CKWDZ	013773U, 014047U
005611	CLADFL	005602U
013662	CLADR	013163S, 013173S, 013272S, 013302S, 013550S, 013570S, 013613S, 013631S 013666U
016364	CLBFAR	016377U
016131	CLCICR	016121S
016120	CLCWAR	010704S, 011002S, 011064S, 011260S, 011537S, 012205S, 012425S, 014003S 016133U
021052	CLLR	021066U
017036	CLPIN	011540S, 013427S, 013466S, 014004S, 014150S, 014410S, 014660S, 015015S 015171S, 017045U, 021125U
021125	CLRIN	020562S, 020613S
007137	CLSAVE	NOT REFERENCED
017211	CMADR	NOT REFERENCED
013114	CMPINT	007711U, 013073U
007711	CMPL	013113S
013060	CMPLK0	010044S, 013061U, 013066U, 013111U
016036	CMRJP	011267S, 011276S, 011305S, 011547S, 011556S, 011565S, 012435S, 012444S 012453S, 012641S, 016057U
003177	CREEK	003001S, 003002U, 003004U, 003025S, 003026U, 003030U, 003040S, 003042U 003112S, 003113U, 003115U, 003136S, 003137U, 003141U, 003151S, 003153U
014411	CSDA	014400U, 014401S, 014542U, 014543S
014356	CSDATA	010056S, 014357U, 014364U, 014604U
014414	CSDB	014402U, 014403S, 014404U, 014405S, 014544U, 014545S, 014546U, 014547S
014471	CSD02	NOT REFERENCED
014455	CSDC	014440U
014525	CSDC2	014510U
014463	CSD0	014423U, 014432U, 014454U, 014462U
014533	CSD02	014473U, 014501U, 014524U, 014532U
014433	CSD1	014427U
014502	CSD12	014476U
014435	CSD1	NOT REFERENCED
014504	CSD12	NOT REFERENCED
007301	CSDM	006100S, 006106U

ADDRESS	LABEL	REFERENCES
005377	CTEN	005307U, 005320U
007136	CUSAVE	NOT REFERENCED
005401	CYCSUB	005055U, 005317U, 005323S, 005620S
005375	CZERO	005053U, 005301U, 017526U, 022145U
011766	D0CDM	011715U
006044	DONE	006120U, 006124U, 006261U, 006352U, 006363U, 006366U, 006533U, 006545U
007233	DONE1	006554U, 006607U, 007024U, 007233U
004624	D0SUP	NOT REFERENCED
000670	D0UT	002307U
022151	D0WN	006426S, 006432S, 006433S, 006434S, 006446S, 006454U, 006455U, 006513U
013220	DATARG	022150U
013347	DATQES	013164S, 013411U
013327	DATREG	013276S
016102	DD	013273S, 013416U
004426	DEAN	016061S
001331	DEEDEF	NOT REFERENCED
013575	DEELA	001264S, 001374U, 001375U
002442	DEFEAT	013661U
010314	DELAY	NOT REFERENCED
003520	DEMAND	010217S, 010231S, 010243S, 010317U, 010352S, 011615S, 012013S, 012030S
014563	DERR0D	013446S, 013505S, 013622S, 013634S, 014421S, 014701S, 015112S, 015131S
014567	DERR0P	015144S, 015160S, 015256S, 015273S, 015610S, 015751S, 017317S, 017324S
014603	DERR0R	017331S, 021123U
014571	DERRC	003471U, 003507U
014551	DERRQ	014556U, 014570U
005352	DETECT	014554U, 014560U
025360	DI0B00T	014552U, 014562U
025370	DI0B00T1	014566U, 016703S, 016711S, 016736S, 016747S
025404	DI0B00T2	014537U
025420	DI0B00T3	005060U, 005062S, 005415U, 005641U, 005651S
025425	DI0B00T4	025221S, 025223S, 025225S, 025242S, 025244S, 025246S, 025250S, 025445U
025433	DI0B00T5	025435U
		025212S, 025233S, 025426U
		025414U
		025421U
		025213S, 025234S

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NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-74 CROSS REFERENCE INDEX

ADDRESS	LABEL	REFERENCES
024374	DIODE	024337S, 024362S, 024437U
024376	DIODE1	024415U
024410	DIODE2	024405U
024413	DIODE3	024334S, 024357S, 024407U
024421	DIODE4	024336S, 024361S
024436	DIODE5	024433U
024437	DIODE6	024411U, 024420U
024316	DIODEMTRX	024174U, 024245U, 024310U
024320	DIOMTRX1	024372U
024330	DIOMTRX2	024324U
024333	DIOMTRX3	024327U
024347	DIOMTRX4	024340U, 024341U
024371	DIOMTRX5	024363U
024105	DIGIT	023774S, 024020S, 024042S, 024063S, 024156U
024115	DIGIT1	024131U
024126	DIGIT2	024123U
024127	DIGIT3	024106S, 024125U
024137	DIGIT4	024152U
024146	DIGIT5	024143U
024150	DIGIT6	024107S, 024145U
007107	DISABL	006151U, 006152U
014301	DISC	014264U, 014266U, 014272U, 014273U, 014275U
021124	DISP	020627S, 020717S
016024	DISP0C	010133S, 010264S, 011224S, 012473S, 012504S, 012521S, 013371S, 014305S 015321S, 015333S, 016035U, 016345U, 016346S, 016350U, 016351S, 016353U 016354S, 016356U, 016357S, 016361S, 016553S, 021124U
001074	DISP0UT	001104U
004374	DISPC	002777S, 003005S, 003010S, 003023S, 003031S, 003044S, 003054S, 003110S 003116S, 003121S, 003134S, 003142S, 003155S, 003165S, 003170S, 004371S 004403U
004632	DIVSEL	003502U
021123	DLAY	020605S, 020747S
012065	DSPLY	012005U
012071	DSPLY1	012016U
024521	DTC0NT	024457S, 024462S, 024470S, 024473S, 024503S, 024506S, 024514S, 024517S 024565U, 024714U, 024716U, 025003U, 025006U, 025023U
024534	DTC0NT1	024523S, 024535S, 024537U
024540	DTC0NT2	024554U

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ADDRESS	LABEL	REFERENCES
024541	DTC0NT3	024525S, 024547U, 024552S
024552	DTC0NT4	024544U
024565	DTC0NT5	024556U
024717	DTC0NT5A	024715U
024713	DTC0NT5B	NOT REFERENCED
021200	DUALMODE	NOT REFERENCED
004660	DUALSEV	001417U, 001746U
007110	DUMMY	006377U, 006526U, 006755U, 006770U
004620	DUNLUP	001710S, 001717U, 001735U, 001737S
025623	EA	023777U, 024132S, 024155U
025624	EA1	024013U, 024035U, 024056U, 024100U, 024134S, 025366S, 025400U, 025402S
		025422U, 025424S, 025436U
025625	EA2	023776U, 024004U, 024014U, 024025U, 024036U, 024047U, 024057U, 024070U
		024101U, 024153S, 024154U, 025367S, 025430U, 025431S, 025440U
025626	EB	025153S, 025174S, 025217S, 025240S, 025353U, 025354S, 025355U, 025441U
		025442S, 025443U
025627	EC1	023015U, 023035U, 023052S, 023110U, 023111S, 023120U, 023132U, 023141U
		024573S, 024606U, 024614S, 024631U, 024640U, 024643U, 024657S, 024675U
		024703U, 024727U, 024752S, 024773U
025630	EC2	023013U, 023036U, 023051S, 023113U, 023114S, 023123U, 023136U, 023142U
		024574S, 024607U, 024615S, 024632U, 024644U, 024660S, 024753U, 024772S
		024774U
016056	EE	016037S
013620	EF0V2	013545S, 013552S, 013562S
013632	EF0V3	013553S, 013563S
016411	EFM0N	007721U, 016412U, 016417U
007721	EFMH	016410S
007715	EFSIL	016563S
016564	EFSILM	007715U, 016566U
013406	EIQKH	007765U, 013174U
007765	EIQKHA	013405S
013413	EIQKL	007766U, 013303U
007766	EIQKLA	013412S
017121	EIGHT	016214U
013202	EIKH	016723U, 016724S, 016726U, 016727S
013311	EIKL	016672U, 016673S, 016674U, 016675S
004600	EIN	003564S, 003574U, 003576U, 003601S, 003616U
007720	EIRH	015775S

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ADDRESS	LABEL	REFERENCES
015776	EIRT1	007720U, 015777U
007704	EISIL	016557S
016560	EISILM	007704U, 016562U
004633	ELM	001252U
004634	ELM1	001254U
001261	ELM2	004634U
007073	ENABLE	006047U, 006050U
007134	ENADD	NOT REFERENCED
017025	ENDONE	017010S
004350	END1	000714U, 001053U
001077	END1P2	001015U
004351	END2	NOT REFERENCED
004352	END3	NOT REFERENCED
004353	END4	NOT REFERENCED
017071	ENDA	017055S
010066	ENDTST	005347U
006531	ENDWRT	006516U, 007202U, 007203U
025631	ENTA	024454S, 024465S, 024500S, 024511S, 024524U
013544	ENTAD	013540S, 013647S, 013654U
025043	ERRB0	025040U, 025061U, 025165S, 025210S, 025231S, 025254S, 025264S, 025273S
		025312S, 025542S, 025557S
025052	ERRB0A	025051S
025057	ERRB0B	025054U
025016	ERRIS	024566S, 024613S, 024636S, 024650S, 024656S, 024702S, 025026U, 025040U
025026	ERRISA	025024U
025032	ERRISB	025031S
025036	ERRISC	025022U, 025025U, 025034U
025041	ERRISD	025030U, 025050U
025042	ERRISE	025033U, 025053U
003571	ERSTE	003602U
025632	ES	NOT REFERENCED
025633	ES1	022562U, 022567U, 022577U, 022656U, 022663U, 022704U, 023166U, 023175U
		023215U, 023241U, 023252U, 023273U, 023277U, 023303U, 023307U, 023313U
		023317U, 023323U, 023327U, 023333U, 023337U, 023343U, 023347U, 023353U
		023371U, 023403U, 023410U, 023417U, 023424U, 023444U, 023454U, 023460U
		023473U, 023500U, 023515U, 023523U, 023527U, 023542U, 023556U, 023570U
		023575U, 023604U, 023611U, 023630U, 023640U, 023644U, 023657U, 023722S

ADDRESS	LABEL	REFERENCES
		025521U, 025532U, 025536U, 025547U, 025553U, 026065U, 026105U
025634	ES2	0237458, 025537U, 025554U
013240	ESDAT0	0131678
025635	ESR10	022050U, 022141U
025636	ESR12	NOT REFERENCED
025637	ESR14	022051U, 022140U
025640	ESR16	NOT REFERENCED
004540	EVEN	003571U
022007	EXEC1	025661U, 026164U
022016	EXEC2	022006U, 022014U
022050	EXEC3	022041U
022057	EXEC4	005410U, 022056U
022134	EXEC4A	022113U, 022125U
022064	EXEC4B	022063U, 022073U
022140	EXEC5	025706U
022153	EXEC6	022151U
022160	EXEC7	022157U, 022167U
022201	EXEC7A	022153U
022202	EXEC7B	022155U
022203	EXEC7C	NOT REFERENCED
022204	EXEC7D	NOT REFERENCED
022205	EXEC7E	022057U
022206	EXEC7F	022061U
001272	EXEDL	NOT REFERENCED
001326	EXEDL1	001323U
013120	EXFEIC	0100548, 013121U, 013126U, 013376U
011336	EXFFCK	011310U, 0113118, 011312U, 0113138, 011315U, 0113168
012075	EXIT	012034U, 012063U
024315	EXITTRAN	024313U
001264	EXRET	001262U
006731	F0B	006725U
011221	F0NDIT	011241U, 011243U
007025	F0RSEL	006037U, 007007U, 007056U, 007256U
017122	F0UR	016216U
004447	FACTOR	002542U
025643	FAILADR	0225278, 0225408, 023042U, 024440U
025644	FAILDI0DE	0243758, 024410U, 0244128, 024417U, 024436U
025645	FAILPTN	0225268, 0225378, 023043U, 023274U, 023300U, 023304U, 023310U, 023314U

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ADDRESS	LABEL	REFERENCES
		023320U, 023324U, 023330U, 023334U, 023340U, 023344U, 023350U, 023354U
025646	FAILTEST	024441U, 024551S, 024561U, 024676U, 024706U, 024740S 024147S, 024160U, 024177U, 024254S, 024266U, 024270S, 024274U, 024312U 024531S, 024545U, 024550S, 024555U
007706	FALADR	012174U, 012175U, 012230U, 012231U
001000	FALCON	000711U, 001000U
013375	FALSEI	013363U
007712	FAULTA	016004S
017236	FAULTI	010103S, 010130U, 010164S, 010261U, 011223S, 012146S, 012233U, 012242U 012423S, 012516U, 013366U, 013370S, 013536S, 013676U, 013717S, 014302S 014564S, 014575U, 014576U, 015317S, 015325S, 016030U, 016031U, 016200U 016201S, 016552S, 020625S, 020715S
011704	FCODE	NOT REFERENCED
011736	FCODE2	011717U
006745	FDSPAC	006416S, 006731S, 006757U, 007207U, 007210U
010227	FF0D	010174S, 010175U, 010176S, 010177U, 010200S, 010201U, 010202S
010241	FFEF	010203S, 010204U, 010205S, 010206U, 010207S, 010210U, 010211S
010250	FFEFA	010212S, 010213U, 010214S
010215	FFID	010170U, 010171S, 010172U, 010173S
010344	FFRES	010335U, 010336S, 010337U, 010340S, 010341S, 010342U, 010343S
016551	FIND	016460S, 016462U, 016467S, 016471U, 016500S, 016502U, 016511S, 016513U 016522S, 016530U, 016537S, 016545U
006602	FININ	006575U, 006600U
005350	FIVENF	005045U, 005077U, 005113U, 005207U, 005211S, 005303U, 005313U, 005315S 005616S
006654	FIX	006636S, 007204U, 007205U, 007275U
026057	FIXMDRPE	023572U
026073	FIXMDRPF	023616U
026101	FIXMPCKC	022713U
026104	FIXPICK	022617S, 022630S, 022732S, 022743S, 026112U
006717	FIXS	007206U
014270	FLAKS	014262U, 014267U
014260	FLATS	014244U
007754	FLRMSF	021007U
021010	FLRSMF	007754U, 020615U
001010	FLTISOL	000774S, 001075U, 004716U
007726	FPRIL	013016U
007727	FPRIL1	013020U

ADDRESS	LABEL	REFERENCES
013017	FPRIM	007726U
013021	FPRIM1	007727U, 013017U
007074	FRAME	006052U, 006053U, 006056U, 006133U, 006134U, 006140U, 006163U, 006164U 006170U, 006265S, 006267U, 006270U
005710	FSTPJP	005443S, 005653U, 005664S
001363	FUMBLE	001340U, 001342U, 001343U
010634	FUNC	010625U, 010626S, 010627U, 010630S, 010631U, 010632S
015403	FUNPA	015356S, 015531S, 015553U
015337	FUNPGA	010062S, 015340U, 015347U, 015350U, 015561U
004443	GROUP	003434U
004444	GROUP2	003436U
004441	GROUP3	003440U
004522	GROUP	003435S, 003447U, 003450U, 003511S
017230	HBCP	013170U, 020527U, 020564U
025652	HOLDA	022257S, 022267U
017234	HOMIP	015370U, 015477U, 015614U, 015637U
021126	HONOR	020110S, 020344S, 020452S, 020463S, 020514S, 021011S, 021016S, 021062S 021065S
017007	HONINT	010050S, 012263S, 012357S, 012407S, 012523S, 012645S, 012654S, 013022S 013042S, 013070S, 013110S, 013131S, 013424S, 013533S, 013653S, 014117S 014717S, 015010S, 015076S, 015210S, 015565S, 015766S, 015773S, 017027U 021101S, 021126U
003203	HALF	003037U, 003150U
017233	HEFMIP	015364U, 015475U, 015572U, 015714U
017232	HEIP	013157U, 013537U, 013544U, 013725U, 014120U, 015357U, 015570U, 015635U 015663U, 015710U
017231	HIBCP	013727U, 013764U, 015235U
017227	HICHAN	013541U, 013554U, 013723U, 013735U, 014377U, 014640U, 014645U, 014743U 014775U, 015034U, 015355U, 015403U, 016340U, 016624S, 016634U, 016722U 020012U, 020017U, 020536U
013660	HIEIS	007751U, 013564U
007751	HIEISP	013657U
017216	HIFACE	014746U, 016575S, 016612S
016662	HIGRUP	016642U
017235	HIMIP	014333U, 014642U, 014656U, 015374U, 015612U, 015665U, 015712U
025647	HNS	022216S, 022553U, 022613U, 022647U, 022726U, 023021U, 023130U, 023160U 023234U, 023362U, 023551U, 023750U, 024216U, 024316U, 025513U
025651	HNSX	022220S, 023017U, 023721U

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ADDRESS	LABEL	REFERENCES
010071	I01	010024S, 010072U, 010077U, 010135U
010007	I010	010031S, 010610U, 010615U, 010646U
010050	I011	010032S, 010651U, 010656U, 011154U
011003	I0110U	010674S, 010677S, 011035U, 011062U
010664	I011A	011146U, 016264S
011065	I011EP	010700U, 010701S, 010702U, 010703S, 011117U, 011144U
010705	I011IN	010666U, 010667S, 010670U, 010671S, 010712U, 010720U, 010753U, 011000U
011246	I012	010033S, 011247U, 011254U, 011437U
011306	I012A	016276S
011200	I012R	011435U
011525	I013	010034S, 011526U, 011533U, 011665U
011566	I013A	016302S
011537	I013R	011664U
011072	I014	010035S, 011673U, 011700U, 012075U
012411	I015	010040S, 012412U, 012417U, 012524U
012455	I015A	012511U, 016306S
012467	I015B	012460U, 012461S
012474	I015C	012462U, 012463S
012500	I015D	012465U, 012466S
012505	I015E	012464S
012135	I016	010036S, 012136U, 012143U, 012247U
012203	I016A	012241U, 016771U
012241	I016B	012251U
012161	I016D	016307S
012173	I016E	012163U, 012164S, 012165U, 012166S, 012172U
012216	I016F	012220U, 016310S
012227	I016G	012223U, 012224S, 012225U, 012226S
012150	I016R	012203U
012526	I017	010041S, 012527U, 012534U, 012674U
012544	I017A	012673U, 016311S
012570	I017B	012540U, 012547S, 012550U, 012551S
012620	I017C	NOT REFERENCED
012502	I017D	012647U, 012656U, 016314S
012574	I017E	012564U, 012565S, 012566U, 012567S
012632	I017F	012543S, 012557S, 012642U, 012735S
012720	I018	010042S, 012721U, 012726U, 013030U
012750	I018A	012740U, 012741S, 013026U

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ADDRESS	LABEL	REFERENCES
012755	I0188	012742U, 012743S, 012744U, 012745S, 012746U, 012747S
012736	I018C	016317S
012732	I018R	013023U
010137	I02	010025S, 010140U, 017336U
010320	I03	010026S, 010321U, 010326U, 010363U
010365	I0456	010027S, 010366U, 010423U
010424	I06	010400S, 010411S, 010422S, 010425U, 010432U, 010476U
010500	I0789	010030S, 010501U, 010536U
010537	I09	010513S, 010524S, 010535S, 010540U, 010545U, 010605U
017125	I08IZE	016207U, 016607S
010000	I0TA	007703U, 010067U, 022015U
017265	I0TAMAT	010065S, 010134S, 010156S, 010265S, 010311S, 010362S, 010472S, 010474S 010602S, 010604S, 010645S, 010721S, 010723S, 010754S, 011001S, 011036S 011063S, 011120S, 011145S, 011153S, 011217S, 011231S, 011351S, 011360S 011361S, 011425S, 011426S, 011452S, 011463S, 011523S, 011621S, 011626S 011653S, 011670S, 011750S, 012025S, 012040S, 012047S, 012067S, 012073S 012117S, 012127S, 012131S, 012246S, 012316S, 012327S, 012337S, 012405S 012522S, 012631S, 012665S, 013014S, 013027S, 013116S, 013232S, 013236S 013341S, 013345S, 013373S, 013404S, 013700S, 014306S, 014351S, 014603S 014723S, 014770S, 015322S, 015334S, 015560S, 016002S, 016022S, 016422S 016436S, 016452S, 016550S, 016555S, 017273S
017400	I0TAPTCH	NOT REFERENCED
022015	I0TATST	022013U
017266	I0TRUNT	010764S, 011046S, 011130S, 011742S, 011746S, 011772S, 011776S, 012002S
021127	I0TXMAT	NOT REFERENCED
006546	IANDC	006041U, 006561U
025735	IBK23T53K	022635U, 022750U
025736	IBK23T57K	NOT REFERENCED
025737	IBK23T61K	NOT REFERENCED
025740	IBK23T65K	NOT REFERENCED
025721	IBNK1T20K	022671U
025722	IBNK1T24K	NOT REFERENCED
025723	IBNK1T28K	NOT REFERENCED
025724	IBNK1T32K	NOT REFERENCED
025725	IBNK2T36K	022624U, 022737U
025731	IBNK3T53K	022756U
025732	IBNK3T57K	NOT REFERENCED

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ADDRESS	LABEL	REFERENCES
025733	IBNK3T61K	NOT REFERENCED
025734	IBNK3T65K	NOT REFERENCED
024720	IC0N	024600S, 024602S, 024621S, 024625S, 024667S, 024672S, 024775U
024730	IC0N1	024751U
024733	IC0N2	024721S, 024744U, 024746S
024734	IC0N3	024722S, 024747S
024744	IC0N4	024737U
024754	IC0N5	024771U
024756	IC0N6	024723S, 024765U, 024767S
024765	IC0N7	024761U
001677	ICEBERG	001267S, 002115U, 002116U
017556	ICH	017530U, 017533S, 017536U
013055	IEINSR	013043U
017237	IFAUULT	010100S, 010141S, 010327S, 010367S, 010433S, 010502S, 010546S, 010616S 010657S, 011255S, 011534S, 011701S, 012144S, 012262S, 012356S, 012420S 012535S, 012727S, 013041S, 013067S, 013127S, 013422S, 013531S, 013711S 014365S, 014565S, 014572U, 014573U, 014634S, 014737S, 015230S, 015351S 016015U, 016016U, 016547U, 016551U, 020006S
024776	IFERR	024502S, 024610S, 024633S, 024645S, 024653S, 024677S, 024707S, 025012U
025006	IFERRA	025002U, 025004U
007106	IGN0RE	006356U, 006517U, 006617U, 006653U
006604	IMPC0N	006567U
013764	IN0A	013730S, 014256S
014005	IN0AA	013736U, 013737S
014011	IN0AB	013743U, 013744S, 013747U, 013750S, 014030U, 014034U, 014043U
014022	IN0AC	013770S
014041	IN0AD	013765S
014066	IN0AE	013752U, 013753S
014073	IN0AF	013740S, 013745S
014100	IN0AG	013726S, 014254S, 014324U
014126	IN0AH	013741S, 013756U, 013757S
014134	IN0AI	013760U, 013761S
014145	IN0AJ	013702U, 013763S
014152	IN0AK	013742S, 013746S
014162	IN0AL	013751S
014175	IN0AM	013754S
014223	IN0AZ	013767S

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ADDRESS	LABEL	REFERENCES
014241	IN0AZZ	013755S
013420	IN0BAS	013364S, 013421U, 013525U
013702	IN0UTC	010055S, 013703U, 013710U, 014277U
006051	IN76	006057U, 007143U, 007144U
005427	INBNK0	005421U
011604	INBUF	011570U, 011571S, 011602U, 011603S
020564	INC0MA	020531S, 020770S
020600	INC0MB	020544U, 020545S
020631	INC0MC	020546S
020634	INC0MD	020521U, 020525S, 020541U, 020542S
020644	INC0ME	020547U, 020550S, 021012U
020650	INC0MF	020551S, 020554U, 020555S
020655	INC0MG	020557U, 020560S
020720	INC0MH	020543S
020737	INC0MI	020552S, 021014U
020743	INC0MJ	020553S, 020556S
020536	INC0MP	020014S, 020762S, 020771U
020772	INC0MT	020755U
020514	INC0MV	020420U, 020422U
025654	INCREM	024576S, 024617S, 024664S, 024745U, 024766U
020004	INCRTC	020005U, 021005U
020007	INCRTR	NOT REFERENCED
005363	INDEX	002454S, 005146U, 005151U, 005157U, 005162U, 005630S, 022331S, 022362S 022442S, 022501S
004404	INFLT	001210S, 001257S, 002310S, 002574S, 003101S, 004363U, 004364S, 004372S 004376U, 004377U
017500	INK4	NOT REFERENCED
007723	INM0H	016440S
016441	INM0N	007723U, 016442U, 016447U
006072	INPR0G	NOT REFERENCED
022255	INSTK0	025071U
005360	INSTK1	005420U, 005444U, 005601U, 005626S, 022106U, 022110S, 022146S
006562	INTER	006414S, 006562U, 006574S, 006603U, 006651S, 007110S
006132	INWD	006142U, 007145U, 007146U
016567	IRJP0T	012451U
016767	IRJPAT	012152U
016563	IRJPEF	012442U
016557	IRJPEI	012433U

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ADDRESS	LABEL	REFERENCES
017074	IRJPF	NOT REFERENCED
007714	IRJPFL	017074S
017075	IRJPFM	007714U, 017077U
024566	ISOC0NT	024546U
024613	ISOC0NT1	024603U, 024605U
024636	ISOC0NT2	024623U
024650	ISOC0NT3	024637U, 024642U
024656	ISOC0NT4	024626U, 024630U, 024652U
024702	ISOC0NT5	024674U
004616	ISAU	001205U
005402	ITABLE	005152U, 005163U
016321	JMPRD	010104S, 011256S, 011535S, 012424S, 016363U
011734	JP1	011737U, 011767U
011750	JP2	011773U
011764	JP3	011743U, 011777U
005711	JPADRS	005712U
026144	JPBK1RST	022055U
012250	JPEF	012207U
007767	JPEFL	012250U
012251	JPEFM	007767U
005712	JPINS	026145U
005364	JPST0P	005137U
005367	JPSTP5	005154U, 005176U, 005204U
001237	JUMRET	001224U
007111	K0	006015U, 006122U, 006123U, 006145U, 006146U, 006161U, 006215U, 006231U, 006241U, 006251U, 006257U, 006260U, 006343U, 006344U, 006361U, 006531U, 006532U, 007022U, 007023U
007123	K070	007025U
001377	K0NG	001265S, 001537U, 001540U
007064	K1	006024U, 006202U, 006557U, 006726U, 007252U
007126	K10	006022U, 006626U
007116	K100	NOT REFERENCED
007225	K11	006351U
005713	K151	005675U, 005676U
007065	K2	006026U, 006141U, 006244U
007223	K22	006605U
005714	K27400	005666U
007066	K3	006030U

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ADDRESS	LABEL	REFERENCES
007227	K300	006220U, 006254U
007222	K33	NOT REFERENCED
007221	K3710	006577U
007067	K4	006032U, 006171U, 006234U
005715	K40000	005423U, 005604U, 005607U
007224	K44	006544U
007070	K5	006034U
007232	K55	006362U
007071	K6	006036U
007230	K66	006116U
007072	K7	006040U, 006666U
007231	K70	006663U
007104	K76	006060U, 006112U, 006222U
007140	K77	006264U, 006776U, 007011U
007133	K7777	006410U
002447	KAYADDER	001311S, 002450U, 002564U, 002565U
010160	KEEP	010142S, 010151U
000000	KH	013144U, 013150U, 013202U, 013205U, 013247U, 013263U, 013343U, 013430U, 013436U, 013444U, 013447U, 013472U, 013500U, 013511U, 013515U, 013571U, 013574U, 013620U, 013632U, 014005U, 014011U, 014014U, 014066U, 014073U, 014076U, 014126U, 014131U, 014134U, 014145U, 014152U, 014155U, 014162U, 014175U, 014241U, 014341U, 014344U, 014347U, 014411U, 014414U, 014417U, 014571U, 014600U, 014662U, 014666U, 014675U, 014704U, 015011U, 015016U, 015021U, 015022U, 015023U, 015077U, 015102U, 015106U, 015111U, 015113U, 015116U, 015122U, 015127U, 015132U, 015140U, 015143U, 015145U, 015151U, 015156U, 015161U, 015165U, 015172U, 015175U, 015176U, 015200U, 015211U, 015214U, 015242U, 015245U, 015251U, 015254U, 015266U, 015271U, 015274U, 015501U, 015504U, 015505U, 015510U, 015513U, 015574U, 015600U, 015603U, 015616U, 015621U, 015624U, 015641U, 015644U, 015647U, 015652U, 015667U, 015672U, 015675U, 015700U, 015716U, 015721U, 015722U, 015725U, 020306U, 020600U, 020631U, 020634U, 020644U, 020650U, 020651U, 020655U, 020720U, 020737U, 020743U, 020750U, 021037U
017212	KHMSK	010730U, 011012U, 011074U, 011367U, 011630U, 012700U, 016641U
000000	KL	013153U, 013234U, 013254U, 013260U, 013311U, 013314U, 013356U, 013433U, 013441U, 013452U, 013456U, 013467U, 013475U, 013503U, 013506U, 014674U, 014601U
014406	KLTURN	014550U
004530	KN0CK0UT	003527U

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ADDRESS	LABEL	REFERENCES
001252	KUP	001250U, 004616U
013603	KUR	013551S
025655	LOOP1	023673S, 023716S, 024111S, 024130S, 024217S, 024220U, 024243S, 024311U 024317S, 024320U, 024342U, 024347U, 024365U, 024371S, 024527S, 024536S 024725S, 024750S, 025321S, 025332S, 025363S, 025371U, 025434S, 025450S 025462S, 025467S, 025502S
025656	LOOP2	023674S, 023743S, 024112S, 024151S, 024253S, 024272S, 024326S, 024331S 024355S, 024414S, 024530S, 024553S, 024726S, 024770S, 025322S, 025350S 025372S, 025425S
025657	LOOP3	NOT REFERENCED
025660	LOOPCOUNT	024570S, 024662S, 024724U, 025151S, 025172S, 025215S, 025236S, 025320U 025362U
006121	LOADOK	006111U
017221	LOADCP	013277U, 016646S, 020766U
017220	LOADCHAN	013650U, 014251U, 014541U, 014715U, 014754U, 015530U, 016336U, 016622S 016630U, 016643U, 016662U, 016671U, 020760U
013527	LOCK0B	013365S, 013530U, 013655U, 013675S
017217	LOADFACE	014757U, 016576S, 016616S
016644	LOADGRUP	016666U
013667	LOADK0S	013375S, 013670U, 013701U
017225	LOADMIP	015543U, 016656S
025661	LOADWEXEC	022017U
025662	LOADLIMIT	022024U, 022136U
022027	L1031	NOT REFERENCED
017246	L12MSK	011226U
022713	L1502	026103U
017113	L15MSK	016613U, 016617U
023170	L1757	NOT REFERENCED
023205	L1774	NOT REFERENCED
023245	L2034	NOT REFERENCED
023260	L2047	NOT REFERENCED
023375	L2164	NOT REFERENCED
023405	L2174	NOT REFERENCED
023436	L2225	NOT REFERENCED
023446	L2235	NOT REFERENCED
023562	L2351	NOT REFERENCED
023565	L2354	NOT REFERENCED
023572	L2361	026072U

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ADDRESS	LABEL	REFERENCES
023616	L2405	026077U
023622	L2411	NOT REFERENCED
023632	L2421	NOT REFERENCED
025523	L4132	NOT REFERENCED
025550	L4156	NOT REFERENCED
017112	L6MSK	012306U, 012324U, 012335U, 012352U, 012402U, 016606U
017252	L9MSK	014314U, 014446U, 014516U
015452	LAST0	NOT REFERENCED
005347	LASTAD	005042U
015472	LASTIN	NOT REFERENCED
017224	LEFMIP	015537U, 016654S
017223	LEIP	013266U, 013645U, 014253U, 015532U, 016652S
017222	LIBCP	014255U, 016650S
017226	LIMIP	014713U, 015547U, 016660S
007112	LIMIT	006411S, 006430U, 006431U
007113	LIMIT1	006412S, 006424U, 006444U
007114	LIMIT2	006204S, 006247U
026132	M0DFLT36K	025550U
026123	M0DFLT8K	025523U
017562	M0DTBL1	NOT REFERENCED
017651	M0DTBL1A	017505U
017652	M0DTBL2	NOT REFERENCED
017741	M0DTBL2A	017506U
017561	M0DTBL3	017514S
001104	M0N0K	001056U
007713	M0NIN0	014726U
014644	M0NINA	014641S, 014716S, 014720U
014656	M0NINB	014643S, 014714S
014662	M0NINC	014646U, 014647S, 014650U, 014651S
014673	M0NIND	014657S
014675	M0NINE	014652U, 014653S
014704	M0NINF	014654U, 014655S, 014727U
001052	M0NINT	001103U
014727	M0NINX	007713U, 014671U
014625	M0NTIN	010057S, 014626U, 014633U, 014724U
022224	M0VE	022053S, 022143S, 022235U
022227	M0VE1	022225S, 022233U
022231	M0VE2	022226S

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ADDRESS	LABEL	REFERENCES
002443	MADEIT	002375U, 002441U
022236	MAIN	0220269, 0220318, 0220348, 0220378, 0220448, 0220478, 0221378, 022252U 022254U, 022260U, 025067U, 025077U
025102	MAINRY	022251U, 025065U, 025100S
022513	MAINTAID	0223248, 0223518, 0224258, 0224708, 022524U
022524	MAINTAID1	022517U, 022522U
016627	MAKADR	0166258, 016637U
007101	MARK	006522U, 006523U, 006703U, 0067058, 007042U, 0070448
004436	MAZE	001407U
017505	MDFIER1	0175128, 0175138, 017515U
025650	MEDAMAT	0220608, 0221548, 0223358, 0223668, 0224458, 0225058, 0245638, 0246118 0246348, 0246468, 0246548, 0247008, 0247118, 0247178, 0251638, 0252068 0252278, 0252528, 0252628, 0252718, 0253108, 0255408, 0255558
022000	MEDIA	022211U, 022213U
027400	MEDIPTCH	0261538, 0261638
025653	MEDRUNT	0220628, 0221568, 0250058, 0250358, 0250568, 0250748, 0250758, 0250768
025062	MEMER	025101U
025077	MEMERA	025066U, 025070U
025075	MEMERB	025072U
025071	MEMERC	022253U
026142	MEMPARA	001275U, 001300S, 022002U
026143	MEMPARB	001276U, 0013018, 022003U
002361	MEMZI	002374U
021106	MN1A	021073U, 0210748, 021075U, 0210768
021114	MN1B	021077U, 021100S
017215	MNADR	0112669, 0112758, 0113048, 0115468, 0115558, 0115648, 0124348, 0124438 0124528, 0126408, 016046U
017213	MNAREA	0112628, 0112648, 0112718, 0112738, 011300S, 011302S, 0115428, 0115448 0115518, 0115538, 0115608, 0115628, 0124308, 012432S, 0124378, 0124418 0124468, 0124508, 0126348, 0126368, 0127158, 016041U, 016043U, 0160508 0160538
021072	MNI01	NOT REFERENCED
007010	MTCH	006774U, 007021U
000013	MTCHAN	006300U, 006303U, 006304U, 006307U, 006325U, 006330U, 006372U, 006375U 006436U, 006441U, 006447U, 006452U, 006453U, 006456U, 006460U, 006465U 006470U, 006471U, 006474U, 006500U, 006503U, 006521U, 006524U, 006656U 006661U, 006717U, 006737U, 006742U, 006750U, 006753U, 006763U, 006766U

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ADDRESS	LABEL	REFERENCES
006402	MTDUMP	006031U
006004	MTEXEC	0060018, 006044U
006275	MTLOAD	006027U, 006355U, 007155U, 007156U, 007157U, 007160U, 007266U
022770	MUBIT1	022672U, 022702U, 022722U, 026102U
022772	MUBIT2	022667U, 022676U, 022701U, 022712U, 022716U, 022721U
022774	MUBIT3	022661U
022776	MUBIT4	022757U, 022767U
023000	MUBIT5	022754U, 022763U, 022766U
023002	MUBIT6	022742U
023004	MUBIT7	022710U
023006	MUBIT8	022751U
023010	MUBIT9	022740U
017551	MUD	017532U, 017535U
003414	MUDDIVE	0013149, 003415U, 003555U, 003556U
023357	MUDR0P	022542U, 022547U
023370	MUDR0PA	023364U
023414	MUDR0PA1	023373U
023423	MUDR0PB	023366U
023460	MUDR0PB1	023453U
023464	MUDR0PB2	023430U
023470	MUDR0PB3	023426U, 023433U
023473	MUDR0PB4	023467U
023477	MUDR0PC	023367U
023527	MUDR0PC1	023522U
023533	MUDR0PC2	023506U
023537	MUDR0PC3	023504U, 023510U
023542	MUDR0PC4	023536U
023546	MUDR0PD	023502U
023555	MUDR0PE	023553U
023601	MUDR0PE1	023560U
023610	MUDR0PF	023554U
023644	MUDR0PF1	023637U
023650	MUDR0PF2	023615U
023654	MUDR0PF3	023613U, 023617U, 026075U
023657	MUDR0PF4	023653U
004631	MULTSEL	003424U
022644	MUPICK	022534U

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ADDRESS	LABEL	REFERENCES
022655	MUPICKA	022651U
022662	MUPICKB	022653U
022703	MUPICKC	022654U
022723	MUPICKD	022706U
022732	MUPICKE	022730U
022743	MUPICKF	022731U
014337	MWA	014334S
014355	MWAED	007756U, 014335U
007756	MWAID	014354U
014325	MWAIT	014276S, 014326U, 014352U, 014355U
014341	MWB	016737S
014344	MWC	016750S, 016757S
014350	MWD	NOT REFERENCED
025770	N000000	022007U, 022010U, 022530U, 022543U, 022550U, 022563U, 022570U, 022573U 022600U, 022605U, 022610U, 022641U, 022644U, 022657U, 022664U, 022675U 022700U, 022705U, 022715U, 022720U, 022723U, 022762U, 022765U, 023137U 023211U, 023216U, 023227U, 023270U, 023411U, 023420U, 023452U, 023455U 023461U, 023474U, 023501U, 023516U, 023521U, 023524U, 023530U, 023543U 023576U, 023605U, 023636U, 023641U, 023645U, 023660U, 023676U, 023724U 024416U, 024432U, 024460U, 024471U, 024504U, 024515U, 024670U, 025261U 025270U, 025335U, 025356U, 025370U, 025444U
025771	N000001	024234U
025772	N000002	022210U
025773	N000004	022554U, 022650U, 023022U, 023126U, 023161U, 023363U
025774	N000007	024231U, 024240U
025775	N000010	022556U, 022652U, 023026U, 023163U, 023365U, 024235U, 025514U
025776	N000014	022614U, 022727U, 023032U, 023235U, 023552U
025777	N000017	022677U, 022717U, 022764U, 023176U, 023222U, 023253U, 023427U, 023505U 023614U, 026101U
026000	N000021	022212U
026001	N000035	NOT REFERENCED
026002	N000077	024344U, 024366U
026003	N000100	022027U, 024224U
026004	N000177	NOT REFERENCED
026005	N000300	022032U
026006	N000314	024704U
026007	N000360	022572U, 022604U, 022640U, 022666U, 022674U, 022711U, 022714U, 022753U 022761U, 023210U, 023220U, 023226U, 023267U, 023451U, 023503U, 023520U

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ADDRESS	LABEL	REFERENCES
		023635U
026010	N000377	022033U, 022561U, 022566U, 022576U, 022602U, 022655U, 022662U, 022703U 022707U, 023174U, 023214U, 023224U, 023240U, 023242U, 023251U, 023255U 023370U, 023372U, 023423U, 023425U, 023477U, 023507U, 023514U, 023555U 023557U, 023610U, 023612U, 024001U, 024022U, 024044U, 024065U, 024641U 025533U, 025534U
026011	N000400	022042U
026012	N000477	022043U
026013	N000534	025305U
026014	N000540	022035U, 022135U
026015	N000577	022036U, 025517U, 025530U, 025544U
026016	N000600	022045U
026017	N000677	022046U
026020	N000700	NOT REFERENCED
026021	N001000	024225U
026022	N006000	024222U
026023	N007000	024351U
026024	N007101	023401U, 023442U
026025	N007777	022221U, 022551U, 022645U, 023133U, 023156U, 023360U, 023512U, 024557U 025055U, 025516U
017267	N00P1	011736U, 011766U
026026	N010000	023415U, 023471U, 023540U, 023711U, 023736U, 023765U, 024200U
026027	N040000	023465U, 023534U, 023763U
005376	N0DET	005054S, 005306U, 005312S, 005625S
023663	N0DR0P	023171U, 023200U, 023246U, 023261U, 023376U, 023437U, 023563U, 023623U 026070U
016547	N0FIND	NOT REFERENCED
017240	N0NJPD	016013U, 016014U, 016017U, 016020U, 016021U, 016026U, 016027U, 016032U 016033U, 016034U, 016343S
023012	N0PICK	022564U, 022571U, 022660U, 022665U, 026110U
023026	N0PICK1	023023U
023032	N0PICK2	023027U
023035	N0PICK3	023020U, 023025U, 023031U, 023033U
023041	N0PICK4	023016U
026030	N100000	022611U, 022724U, 023232U, 023547U, 023602U, 023655U, 023761U, 025527U 025543U
026031	N100101	023566U, 023626U
026100	N101010	026063U

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ADDRESS	LABEL	REFERENCES
026032	N140000	023651U, 023757U
026033	N170000	023014U
026034	N177777	024604U, 024627U
026035	N400000	NOT REFERENCED
026036	N770000	023122U
026037	N777777	023050U, 023103U, 023134U, 023155U, 023231U, 023357U, 023400U, 023441U 023511U, 023546U, 023565U, 023625U, 024116U, 024255U, 024264U, 024307U 024314U, 024455U, 024466U, 024501U, 024512U, 024571U, 024665U, 025152U 025173U, 025216U, 025237U, 025316U, 025470U, 026062U
004442	NEG1	NOT REFERENCED
003201	NEG1P	003041U, 003152U
004477	NEGZER0	001211U, 001356U, 001403U, 001545U, 001552U, 001567U, 001574U, 001766U 002277U, 002615U, 002635U, 002651U, 002664U, 002675U, 002714U, 003211U 003231U, 003233U, 003257U, 003300U, 003545U
010735	NEXT	010731U, 0102668
011017	NEXTA	011013U, 0102728
011101	NEXTB	011075U, 0102758
006425	NTDST	007262U
017262	NTDSTD	011423U, 014261U, 015345U, 0165778, 0166048, 020517U
005362	NUMPASS	005046U
004707	NWL1	003630U, 004637U
002515	NWL10	002512U
002516	NWL11	002514U
002524	NWL12	002520U
002530	NWL12A	002524U
002525	NWL12B	002522U
002531	NWL12C	002526U
002540	NWL12D	002530U
002541	NWL12E	002535U
002603	NWL13	002577U
002562	NWL14	002554U
002602	NWL14A	002600U
002563	NWL15	002561U
002613	NWL15A	002603U
002604	NWL16	002601U
002612	NWL17	002606U
002605	NWL18	002607U
002611	NWL19	002613U

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ADDRESS	LABEL	REFERENCES
004713	NWL2	001012U
002622	NWL21	002620U
002633	NWL22	002627U
002634	NWL23	002631U
002635	NWL24	002633U
003056	NWL25	003000U
003060	NWL26	003006U
003062	NWL27	003011U
003064	NWL28	003024U
003066	NWL29	003032U
002474	NWL3	002467U
003070	NWL30	003045U
003072	NWL31	003055U
003223	NWL32	003217U
003227	NWL33	003220U
003226	NWL34	003223U
003534	NWL35	003531U
003535	NWL36	003533U
002475	NWL4	002471U
002500	NWL5	002474U
002501	NWL6	002476U
002502	NWL7	002500U
002510	NWL7A	002504U
002511	NWL8	002505U
002514	NWL9	002510U
007302	NWLN0	006276U
006540	NWLPAT	006277S, 006404S
003627	NWLSHF	NOT REFERENCED
007303	NWLYES	006403U
004432	NZR0	002775U, 003050U, 003106U, 003161U, 003570U
017554	P0D	017517U, 017522U
006325	P0LOAD	006312S, 006322S, 006622U, 007161U, 007162U
002266	P0RTE	002253S, 002267U, 004613U, 004614U
004475	P0SZER0	001125U, 001156U, 001213U, 001215U, 001223U, 001316U, 001423U, 001442U 001502U, 001624U, 001645U, 001664U, 001702U, 001773U, 002051U, 002464U 002625U, 002660U, 003215U, 003241U, 003323U, 003347U, 003354U, 003361U 003373U, 004633U, 004736U
004476	PAR50	NOT REFERENCED

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ADDRESS	LABEL	REFERENCES
022207	PARAMETER	022005S, 022223U
003560	PARITY	001315S, 003561U, 003625U, 003626U
025665	PARITY0DD	022245U
025664	PARITYEVN	022243U
025663	PARITYMSK	022272U, 022352U, 023054U
022276	PARTYSKP1	022270S
022313	PARTYSKP2	022271S
005373	PAS1AL	005231S, 005614S
005372	PAS1AU	005227S, 005613S
005374	PASS1B	005233S, 005615S
005371	PASS1P	005225S, 005612S
017557	PEA	017516U, 017521U
004623	PEAPLUS	001243U
026113	PEBCK32K	026107U
012077	PEEK	012056S, 012064S, 012101U, 012116U, 012126U
003175	PENNYP	002772U, 003103U
006115	PERR0R	006062U, 006107U
015554	PEST	015522U
003077	PICKAPLUM	002017S, 002023S, 002027S, 002034S, 002041S, 002046S, 003100U, 003172U
017046	PIN	011605U, 011606U, 011616U, 012120S, 012121U, 013151U, 013152U, 013261U 013262U, 013437U, 013440U, 013442U, 013443U, 013462U, 013476U, 013477U 013501U, 013502U, 013521U, 014012U, 014013U, 014024U, 014156U, 014157U 014200U, 014204U, 014212U, 014235U, 014345U, 014346U, 014415U, 014416U 014422U, 014464U, 014471U, 014667U, 014670U, 015017U, 015020U, 015024U 015025U, 015100U, 015101U, 015117U, 015120U, 015173U, 015174U, 015201U 015202U, 015252U, 015253U, 015267U, 015270U, 015336U, 015511U, 015512U 015622U, 015623U, 015650U, 015651U, 015676U, 015677U, 015726U, 015727U 017037S, 017040S, 017041S, 017042S, 017043S, 017044S, 017257U, 020001U 020602U, 020606U, 020632U, 020633U, 020661U, 020667U, 020675U, 021103S 021104S, 021112U, 021113U
017257	PIN3	014231U
017254	PLAC2	013720S, 014274U, 014301U, 014317U, 014322S, 014367S, 014450U, 014453S 014553U
017255	PLAC3	013721S, 014370S, 014461S, 014557U
017256	PLAC4	013722S, 014243U, 014246S, 014366S, 014444U, 014514U, 014612S, 020101S 020102U, 020203S, 020204U, 020516S, 020754U, 020757S
014624	PLAC5	014371S, 014520U, 014523S, 014555U

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ADDRESS	LABEL	REFERENCES
014622	PLAC7	014406S, 014517S, 014522U
014623	PLAC8	013136S, 013244S, 013353S, 013367U, 014372S, 014531S, 014561U, 015352S 015521U, 015524S, 020004S, 020071S, 020174S, 020362U, 020376U
017251	PLACE	013535S, 013643U, 013646S, 013771S, 013772S, 014315U, 014316S, 014321U 014407S, 014447S, 014452U, 015233S, 015312S, 015320U, 015332U
003104	PLUM	003125U
003130	PLUM1	003147U
003025	PLUM11	003022U
003033	PLUM12	003027U
003037	PLUM13	003035U
003046	PLUM14	003043U
003057	PLUM15	003053U
003061	PLUM16	003057U
003063	PLUM17	003061U
003065	PLUM18	003063U
003067	PLUM19	003065U
003017	PLUM1A	003036U
003071	PLUM20	003067U
002773	PLUMA	003014U
003001	PLUMA1	002776U
003007	PLUMA2	003003U
003012	PLUMA3	003007U
006465	PR0	007174U, 007175U, 007176U, 007177U, 007273U
025666	PR0GSI3E	NOT REFERENCED
015771	PR0KA	007770U, 015753U, 015774U
007770	PR0KAA	015770S
006460	PR0UT	006427S, 006435S, 007172U, 007173U
015563	PR2345	015452S, 015472S, 015745U
015574	PRAAA	015404U, 015405S
015600	PRAAB	015412U, 015413S, 015421U, 015422S, 015441U, 015442S, 015453U, 015454S
015756	PRAAC	015476S, 015500S, 015571S, 015573S, 015613S, 015615S, 015636S, 015640S 015664S, 015666S, 015713S, 015715S
015616	PRAAD	015414S, 015433U, 015434S, 015443U, 015445S, 015455U, 015456S
015641	PRAAE	015406S, 015415S
015647	PRAAF	015423S, 015435S, 015446S, 015457S
015667	PRAAG	015407S, 015416S
015675	PRAAH	015424S, 015436S, 015447U, 015451S, 015470U, 015471S

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ADDRESS	LABEL	REFERENCES
015716	PRAAK	015410S, 015425S
015725	PRAAL	015417S, 015431S, 015437S
015733	PRAALL	015363S, 015536S, 015711S
015501	PRAAM	015411S, 015426S
015510	PRAAN	015420S, 015432S, 015440S
015624	PRADD	015427U, 015430S
015763	PRBAD	007771U, 015754U, 015767U
007771	PRBADD	015762S
015570	PRBBA	015360S, 015365S, 015533S, 015540S
015612	PRBBB	015371S, 015375S, 015460U, 015461U, 015462S, 015463S, 015544S, 015550S
015635	PRBBC	015361S, 015372S, 015534S, 015545S
015663	PRBBD	015362S, 015376S, 015535S, 015551S
015712	PRBBF	015366S, 015377S, 015464U, 015465U, 015466S, 015467S, 015541S, 015552S
015475	PRBBG	015367S, 015373S, 015542S, 015546S
001201	PRELIM	001007U, 001263U, 001324U
016252	PRESTR	016226U, 016235U, 016243U
025641	PRGSI1	022052U, 022142U
025642	PRGSI2	NOT REFERENCED
013016	PRI0K	012775U
013020	PRIBAD	012766U
010014	PST0P	NOT REFERENCED
006147	PT0FF	006115S, 006121S, 006154U, 006256S, 006421S, 007147U, 007263U
000000	PTCHAN	006046U, 006051U, 006054U, 006132U, 006135U, 006150U, 006162U, 006165U
		006212U, 006266U, 006271U
006176	PTDUMP	006025U
006045	PTLOAD	006023U, 007142U, 007261U
007115	PUN0N	006213U, 006214U
006262	PUNF	006217S, 006223S, 006233S, 006243S, 006253S, 006274U, 006420S, 007151U
		007154U, 007265U
013356	QACK	016721S
004440	QUTRECING	001602U, 004732U, 004733U, 004743U
004414	QUTREDEUX	001226U, 001227U, 001365U, 001370U, 001544U, 001550U, 001565U, 001573U
		001601U, 001607U, 001615U, 001634U, 001654U, 001661U, 003307U, 003352U
		003353U, 003360U
004473	QUTREZER0	002575U, 002670U, 002724U, 003333U, 003365U
004614	R0UGE	002270U

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ADDRESS	LABEL	REFERENCES
004526	R0UND	003524U
023765	RADR0	023752U
023763	RADR1	023754U
023761	RADR2	023756U
023757	RADR3	NOT REFERENCED
024440	RAND0M	024364U, 024373U, 024435U
007062	RC0DE	006020S, 006021U
016166	RC0RD0	010120S, 010235S, 010240S, 010354S, 010637S, 011010S, 012202S, 013215S 013223S, 013245S, 013251S, 013324S, 013332S, 013354S, 013360S, 013450S 013454S, 013460S, 013464S, 013507S, 013513S, 013517S, 013523S, 014028S 014032S, 014036S, 014045S, 014053S, 014064S, 014070S, 014146S, 014176S 014202S, 014206S, 014215S, 014227S, 014233S, 014237S, 014242S, 014424S 014430S, 014441S, 014456S, 014467S, 014474S, 014477S, 014511S, 014526S 014702S, 014705S, 015027S, 015114S, 015134S, 015146S, 015163S, 015204S 015264S, 015276S, 015305S, 015311S, 015764S, 016174U, 016565S, 017076S 021117U
016175	RC0RDF	010122S, 010247S, 010252S, 012240S, 013600S, 013606S, 013627S, 013641S 016203U, 016571S
016157	RC0RDI	010116S, 010223S, 010226S, 010347S, 010462S, 010573S, 010635S, 011072S 012653S, 013021S, 016165U, 016561S
006356	RDSELF	006320U, 006637S
007077	READ	006301U, 006302U, 006466U, 006467U, 006675U, 006677S, 007034U, 007036S
006125	READ3	006073S, 006077S, 006110S, 006144U, 006422S
006158	READ5	006065S, 006175U, 006423S
006162	READ5A	006172U, 007152U, 007153U
006430	READY1	NOT REFERENCED
021117	RECORD	020056S, 020067S, 020076S, 020106S, 020131S, 020157S, 020171S, 020200S 020210S, 020224S, 020254S, 020273S, 020307S, 020326S, 020342S, 020611S 020646S, 020653S, 020656S, 020664S, 020672S, 020700S, 020735S, 020740S 020752S, 021010S
025677	RECYCLE	022020S, 022771U, 022773U, 022775U, 022777U, 023001U, 023003U, 023005U 023007U, 023011U, 023040U, 023045U, 023144U, 023276U, 023302U, 023306U 023312U, 023316U, 023322U, 023326U, 023332U, 023336U, 023342U, 023346U 023352U, 023356U, 023413U, 023422U, 023457U, 023463U, 023476U, 023526U 023532U, 023545U, 023600U, 023607U, 023643U, 023647U, 023662U, 024016U 024040U, 024061U, 024103U, 024233U, 024242U, 024346U, 024370U, 024443U 024564U, 024612U, 024635U, 024647U, 024655U, 024701U, 024712U, 025042U

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ADDRESS	LABEL	REFERENCES
		025164U, 025207U, 025230U, 025253U, 025263U, 025272U, 025304U, 025311U
		025541U, 025556U, 026151S
005665	RECYCLE2	005223U
003444	REDUE	003517U
010050	REES	NOT REFERENCED
010063	REES1	010053U
002401	REFILL	002426U
004626	REFRAD	002420U
006413	REG0	006542U
016400	REICR	010165S, 010332S, 010436S, 010551S, 010621S, 010663S, 011257S, 011536S
		012145S, 012204S, 012454S, 012537S, 012731S, 016221S, 016230S, 016236S
		016245S, 016407U, 017276S
002414	REJECTS	004626U
004615	REPLEM	001203U
010302	REQA	010307U
010271	REQACK	010272U, 010313U, 017320S, 017325S, 017332S
006346	RERR0R	006342U
005446	RESIN2	005170U
005415	RESINS	005105U
026162	RESJPINS	022200U
025600	RESTORE	023775S, 025617U
025605	RESTORE1	025614U
005600	RESTART	NOT REFERENCED
006353	RETRY	006347U
006760	REWD	006417S, 006723S, 006772U
013571	RIGA	013556U, 013557S, 013560U, 013561S
013731	RIIC	014257U
017247	RIL	013614U, 014122U, 017014U
001103	RILERO	001043U
001043	RILFLT	001102U
016424	RJP0UT	011303U, 011563U, 012637U
016410	RJPEF	011274U, 011554U
015775	RJPEI1	011265U, 011545U
016440	RJPIN	NOT REFERENCED
012253	RLJPEI	010037S, 012254U, 012261U, 012341U
007753	RSMF0K	021013U
021062	RSMFA	007772U, 021027U
020366	RSMFAA	020022U, 020023S

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ADDRESS	LABEL	REFERENCES
007757	RSMFAB	020423U
020424	RSMFB	007757U, 020353U
007772	RSMFBA	021061U
021014	RSMFK0	007753U, 020704U
001100	RTC0K	001013U
007762	RTC0M	020415U
001030	RTC0V	001100U
001102	RTC0VC	001030U
020412	RTC0VF	007764U, 020042U
007764	RTC0VK	020411U
020057	RTCA	020412U
020130	RTCB	020414U
020160	RTCC	020416U
020255	RTCCB	020425U
020425	RTCCBB	020235U
007773	RTCCC	020240S, 020260S, 020277S, 020313S, 020332S, 020443U
020443	RTCCCC	020236U
020273	RTCCD	020426U
020426	RTCCDD	020256U
020307	RTCCE	020427U
020427	RTCCEE	020275U
020326	RTCCF	020430U
020430	RTCCFF	020311U
020342	RTCCG	020431U
020431	RTCCGG	020330U
020432	RTCEN	020271S, 020305S, 020324S, 020340S, 020442U
020416	RTCM0K	007762U, 020134U
007763	RTCM0T	020413U
021065	RTCMA	007755U, 021030U
007755	RTCMB	021064U
020414	RTCN0T	007763U, 020113U
020410	RTCREM	020212U
020444	RTCWD1	020437U
020445	RTCWDC	020227U
020446	RTCWDD	020230U
020372	RTCWIC	020424U
005301	RUNE10	005300U, 005721U
005317	RUNE11	005310U

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ADDRESS	LABEL	REFERENCES
005326	RUNE11A	NOT REFERENCED
005330	RUNE12	005325S, 005327U
005254	RUNEN1	005261U
005255	RUNEN2	005254S
005262	RUNEN3	005260U
005263	RUNEN4	005270U
005264	RUNEN5	005263S
005271	RUNEN6	005267U
005272	RUNEN7	005277U
005273	RUNEN8	005272S
005300	RUNEN9	005141S, 005276U, 005640S
005247	RUNENT	017266U, 022067S, 022163S, 022202U, 022206U, 025653U
013401	S00DRP	007752U, 013161S, 013165S, 013270S, 013274S
007752	S0DRP	013400U
000776	S0FINDS	000770U, 000773U, 004711U
017553	SAP	017540U
001250	SAUCE	001206S, 001247U
005720	SAVAI9	005635U
004717	SAVDTA	004720S, 004754U
007124	SAVE	006547S, 006550U, 006555U, 006560U
025561	SAVEADR	023772S, 025577U
025566	SAVEADR1	025575U
005332	SAVEAL	005005S, 005230U, 005241U
005331	SAVEAU	005004S, 005226U, 005242U
005333	SAVEB	005007S, 005232U, 005244U
007135	SAVECD	NOT REFERENCED
005434	SAVEIN	005417U
025667	SAVEK	025574S, 025606U
025015	SAVENT	005633S, 024713U, 025001U, 025007S, 025021U
005334	SAVEP	005011S, 005041U, 005071U, 005122U, 005165U, 005200U, 005220U, 005224U
		005236U, 005237U, 005434U, 005621S, 022116U
005335	SAVEP2	005072U, 005123U, 005216U, 005221S, 005422U, 005427U, 005603U, 005605S
		005644U, 005652S
005336	SAVEP3	005126U, 005214U, 005217S, 005622S
005337	SAVEP4	005131U, 005212U, 005215S, 005623S
005340	SAVEP5	005134U, 005213S, 005624S
005355	SAVEP6	005167S, 005202S, 005203U, 005446U, 005606U, 005610S, 005656U, 005663S
		022130U

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ADDRESS	LABEL	REFERENCES
005717	SAVIN2	005452S, 005657U
005716	SAVIN8	005430U, 005440S, 005645U
005721	SAVRU9	005637U
023155	SBDR0P	022546U
023166	SBDR0PA	023162U
023174	SBDR0PB	023164U
023214	SBDR0PC	023165U
023231	SBDR0PD	023217U
023240	SBDR0PE	023236U
023251	SBDR0PF	023237U
025760	SBNK0T20K	023201U, 023432U
025761	SBNK0T24K	NOT REFERENCED
025762	SBNK0T28K	NOT REFERENCED
025763	SBNK0T32K	NOT REFERENCED
025764	SBNK2T53K	023204U, 026074U
025765	SBNK2T57K	NOT REFERENCED
025766	SBNK2T61K	NOT REFERENCED
025767	SBNK2T65K	NOT REFERENCED
022550	SBPICK	022533U
022561	SBPICKA	022555U
022566	SBPICKB	022557U
022576	SBPICKC	022560U
022610	SBPICKD	022601U
022617	SBPICK E	022615U
022630	SBPICKF	022616U
004520	SCARF	003212S, 003216S, 003221U, 003224U, 003227U
025700	SCRATCH1	025377S, 025411U, 025420U
025701	SCRATCH2	025410S, 025413U
013400	SDRP	013203U, 013204U, 013312U, 013313U
003442	SECONDS	003504U
020403	SECSH	020127S, 020221S, 020407U, 020504S, 020505S
023666	SELECT	022552S, 022612S, 022646S, 022725S, 023157S, 023233S, 023361S, 023402S, 023443S, 023513S, 023550S, 023567S, 023627S, 023746U, 025520S, 025531S, 025545S, 026064S
023677	SELECT1	023717U
023700	SELECT2	NOT REFERENCED
023710	SELECT3	023704U
023725	SELECT4	023744U

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ADDRESS	LABEL	REFERENCES
023726	SELECT5	NOT REFERENCED
023735	SELECT6	023731U
007131	SELECTZ	006715U, 007045U, 007047S
006216	SEND	006221U
006252	SEND1	006255U
004653	SEPTZER0	001233U, 001332U, 001341U, 001555U, 001562U, 001577U, 002273U, 002364U 002367U, 002644U, 002705U, 002750U, 002755U, 003245U, 003246U
015747	SETPR	015514S, 015604S, 015625S, 015653S, 015701S, 015735S, 015761U
021122	SETRES	020453S
020450	SETSPL	020001S, 020462U, 021002S
006610	SETUP	006275S, 006413S, 006415S, 006735U
004450	SEVENN	NOT REFERENCED
004434	SEVENT	002340U
004417	SEVENZER0	003367U
004661	SEVSEV	002320U
003174	SF2	002771U, 003102U
014606	SFK	014443S, 014513S, 014613U
002600	SHIFFY	NOT REFERENCED
002567	SHIFLESS	001312S, 002570U, 002573U, 003074U, 003075U, 003627S
002621	SHIPN0	002617U
002614	SHIFTER	002611U
007226	SHSAVE	006263S, 006273U
005366	SINDEX	005155S, 005164S, 005171U, 022131U
004445	SIXSEPT	001475U, 001515U, 002236U, 003324U, 004737U
006232	SIXSH	006235U
004416	SIXZERUNE	003377U
010117	SK0ICK	010111U, 010112S
010121	SKFICK	010113U, 010114S
010115	SKIICK	010107U, 010110S
013452	SKINT	016706S, 016716U, 016717S
013511	SKINT2	016742S, 016760U, 016761S
001105	SKIPSTOP	001005U
001120	SKPST1	001114U, 001116U
001125	SKPST2	001112U
001151	SKPST3	001142U
001156	SKPST4	001154U
001542	SLUP	001266S, 001674U, 001675U
001241	SMEAL	001204S, 001237S, 001242U, 004623U

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ADDRESS	LABEL	REFERENCES
025742	SN0FLT12K	NOT REFERENCED
025743	SN0FLT16K	NOT REFERENCED
026043	SN0FLT20	023205U, 023436U, 023446U
025744	SN0FLT20K	NOT REFERENCED
025745	SN0FLT24K	NOT REFERENCED
025746	SN0FLT28K	NOT REFERENCED
025747	SN0FLT32K	NOT REFERENCED
026047	SN0FLT36	023245U, 023562U, 026057U, 026067U
025750	SN0FLT36K	NOT REFERENCED
025751	SN0FLT40K	NOT REFERENCED
025752	SN0FLT45K	NOT REFERENCED
026053	SN0FLT53	023260U, 023622U, 023632U
025754	SN0FLT53K	NOT REFERENCED
025755	SN0FLT57K	NOT REFERENCED
025753	SN0FLT59K	NOT REFERENCED
025756	SN0FLT61K	NOT REFERENCED
025757	SN0FLT65K	NOT REFERENCED
026040	SN0FLT8	023170U, 023375U, 023405U
025741	SN0FLT8K	NOT REFERENCED
007102	SPACFD	006706U, 006710S, 006751U, 006752U, 007050U, 007052S
023046	SPADR	023012S, 023145U, 023414S, 023464S, 023470S, 023533S, 023537S, 023601S 023650S, 023654S, 023663S
023056	SPADR1	023070U
023064	SPADR2	023061U
023066	SPADR3	023063U
023072	SPADR4	023116U
023101	SPADR5	023075U
023105	SPADR6	023100U
023115	SPADR7	023077U, 023104U
023132	SPADR7A	023124U
023141	SPADR8	023135U
023145	SPADR9	023121U, 023127U, 023131U, 023140U
025103	SPC0NT	024651S, 025136U
020000	SPECIA	010070U, 015731U
007761	SPI12A	020417U
020420	SPI12B	007761U, 020476U
007760	SPI13C	020421U
020422	SPI13D	007760U, 020475U

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TABLE 8-74 CROSS REFERENCE INDEX

ADDRESS	LABEL	REFERENCES
001101	SPINTE	001027S, 001040U, 001042S, 001047U, 001051S, 001071U, 001073S, 001074U 004715S
021015	SPRI	021001S, 021063U
020463	SPRI0	020350U
021037	SPRIA	020025S
004604	SR0BY	001344S, 001345S, 001346U, 001361U
002333	SR30	002317U, 002321U
011233	SRCH	011165S, 011167S, 011171S, 011173S, 011175S, 011176S, 011200S, 011202S 011203S, 011205S, 011207S, 011210S, 011212S, 011214S, 011215S, 011225U 011245U
016454	SRCHCM	011407U, 011650U
011156	SRCHM	010763S, 011045S, 011127S, 011157U, 011222U
017030	SRSMAL	010052S, 017035U, 021122U
017003	SS	016773S
004700	SS0	001127U, 001161U
004701	SS1	001131U, 001164U
004702	SS2	001133U, 001167U
004703	SS3	001135U, 001172U
004704	SS4	001137U, 001175U
004705	SS5	001141U
004706	SS6	001147U
005442	STJPF	005142U
017243	ST0PA	014225U
017250	ST0PAA	013242U, 013351U, 016777U, 020103U
017244	ST0PB	020175U
017245	ST0PC	020115U, 020136U, 020205U
020447	ST0PD	020167U
004621	ST0PIT	002251U
005706	ST0RESR	005665S, 005673U, 022071S, 022165S, 026146S
004435	STACKED	002400U
004601	STACKUP	002400S, 002422U
004603	STAHL	000713S, 000740S, 000752S, 000757S, 000767S, 000772S, 000775U, 000777U 004710S, 004714S
016146	STAL	016141S, 016143S, 016145S, 016154U
016134	STALAC	010254S, 010435S, 016156U
010021	START	010013U
004630	STARTADD	001207U
007121	STATWD	006350U, 006354S, 006364U, 006541S, 006543U, 006565S, 006572U, 006576U

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A  
 TABLE 8-74 CROSS REFERENCE INDEX

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ADDRESS	LABEL	REFERENCES
		006604U
016105	STCWAR	010161S, 016117U, 017275S
007244	STD18	006033U, 007255U
017263	STDEST	014260U
016772	STINK	012150S, 012206S, 012426S, 012540S, 012603S, 012646S, 012655S, 012732S 012765S, 013137S, 013253S, 014151S, 014661S, 015752S, 017006U, 021116U
021116	STINKR	020031S, 020111S, 020226S, 020351S, 020464S, 020614S, 020703S, 021017S
026151	STJPINS	022104U
004602	STR0LL	001333S, 001335S, 001336U, 001347S, 001350U, 001354S, 001355U, 001366S 001367U
025702	STRA	024453S, 024464S, 024477S, 024510S, 024522U
012702	STRINA	012155S, 012212S, 012607S, 012771S, 013000S, 016312S, 016315S
012713	STRINB	012153S, 012157S, 012210S, 012214S, 012605S, 012611S, 012615S, 012707S 012773S, 012776S, 013002S
012676	STRINT	012160S, 012215S, 012612S, 012616S, 012717U, 012774S, 013003S, 016316S
017054	STRMEM	011703S, 015241S, 017073U
005361	STRRUN	005103S, 005627S, 022111U
005365	STRSTP	005145S, 005631S, 022123U
006001	STRT	006000U, 006003U
002306	SUPEREG	001271S, 002444U, 002445U, 004624S
014101	SURCH	NOT REFERENCED
005400	SUTCFS	002452S, 002572S, 003207S, 003417S, 003563S, 005324U, 005617S, 010075S 010275S, 010324S, 010430S, 010543S, 010613S, 010654S, 011162S, 011252S 011473S, 011531S, 011676S, 012104S, 012141S, 012257S, 012350S, 012415S 012532S, 012724S, 013036S, 013064S, 013124S, 013673S, 013706S, 014331S 014362S, 014631S, 014734S, 015225S, 015343S, 016415S, 016431S, 016445S 022105S, 022263S, 024450S, 025143S, 025511S
002250	SWAI	002247U, 004612U
017117	SXTEEN	016210U
013467	T00UT2	016702S, 016734S
013430	T00UTS	016701S, 016733S
004605	T0AX	NOT REFERENCED
001344	T0BY	001372U
013417	T0FIV	NOT REFERENCED
013436	T0INS	016712U, 016713S, 016751U, 016752S

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TABLE 8-74 CROSS REFERENCE INDEX

ADDRESS	LABEL	REFERENCES
013475	T0INS2	016714S, 016753S
004600	T0PCOUNT	002466S, 002502U
003231	T0SSUP	003226U
007142	TAB1	007215U, 007217U
007261	TAB1B	007257U, 007260U
007257	TAB18A	007245U
007260	TAB18B	007254U
007215	TAB1A	006775U
007217	TAB1B	007005U
007155	TAB2	007216U, 007220U
007216	TAB2A	007010U
007220	TAB2B	007020U
002545	TAKEOFF	NOT REFERENCED
010022	TBL10	010040U, 016255S
010105	TBLI01	010123U, 016252S
010160	TBLI02	010253U, 016253S
010333	TBLI03	010355U, 016254S
010437	TBLI06	016256S
010552	TBLI09	016261S
014620	TDCS	014433S, 014460U, 014502S, 014530U
004431	TEAN	002433U, 002440U
005722	TEMP	005424S, 005425U
025703	TEMPORARY	022514S, 022515U, 022521U, 022523U, 023106S, 023107U, 023112U, 025260U, 025267U, 025317S, 025327U, 025330S, 025342U, 025451S, 025457U, 025460S, 025471S, 025477U, 025500S
016073	TERM	016066S, 016070S, 016072S, 016101U
005342	TERM0T	005022U, 005262U
005344	TERM20	005017U, 005257U
005345	TERM2A	005026U, 005266U
005346	TERM2B	005035U, 005275U
016060	TERMAL	010051S, 010266S, 010475S, 010550S, 010622S, 010662S, 011470S, 011702S, 013130S, 013147S, 013257S, 013423S, 013532S, 013652S, 014010S, 014072S, 014116S, 014577S, 014665S, 015007S, 015014S, 015075S, 015105S, 015121S, 015170S, 015217S, 015250S, 015564S, 016104U, 017335S, 021121U
005343	TERMEF	005031U, 005271U
005341	TERMIN	005013U, 005253U
025704	TERMINAL	022240S, 022306U, 022353U, 022406U, 022427U, 022454U, 022472U, 022520U, 023067U, 023115U

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ADDRESS	LABEL	REFERENCES
021121	TERML	020360S, 020451S, 020561S, 020702S, 020742S, 021036S
013343	TESTAC	016740U, 016741S
013234	TESTAK	016704U, 016705S
004474	TESTALL	003454U, 003462U
016334	TESTIT	016323S, 016324S, 016326S, 016327S, 016331S, 016332S, 016342U
025705	TESTPATTN	023671S, 023700U, 023726U, 024456S, 024461S, 024467S, 024472S, 024502S 024505S, 024513S, 024516S, 024532U, 024543U, 024572S, 024666S, 024671S 024731U, 024736U, 024760U
004424	THIFIVE	001412U
004421	THIRTEEN	002521U
004422	THIRTY	002350U
015176	TIM0	015050S, 015051S, 015073U, 015074S
015077	TIMA	015035U, 015036S
015102	TIMB	015041U, 015042S, 015045U, 015046S
015111	TIMC	015052U, 015053S, 015055U, 015056S
015116	TIMD	015037S
015122	TIME	015047S
015032	TIMEA	014744S, 014753S, 014755S, 014764S, 015206U
014765	TIMET	NOT REFERENCED
015127	TIMF	015054S, 015057S
015211	TIMG	015043S, 015060U, 015061S
015207	TIMGG	015136S, 015150S, 015220U
015140	TIMH	015062U, 015063S
015143	TIMI	015065U, 015066S, 015070U, 015071S
015151	TIMK	015064S
015156	TIML	015067S, 015072S
015165	TIMM	015044S
015172	TIMN	015040S
006364	TMREAD	007063U
007063	TMSAVE	006573U
004412	TR0ISCING	001334U, 001337U, 001414U, 001543U, 001551U, 001566U, 001572U, 001600U 001606U, 001613U, 001621U, 001630U, 001642U, 001651U, 001652U, 002121U 002126U, 003305U, 003306U, 003345U, 003346U, 003357U, 004725U, 004726U 004747U, 004751U
004437	TR0ISDEUX	001610U
004406	TR0ISSEPT	002243U
004451	TR0ISZERO	001510U, 003403U
024246	TRAN	024226S, 024236S, 024315U

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 TABLE 8-74 CROSS REFERENCE INDEX



ADDRESS	LABEL	REFERENCES
024255	TRAN1	024273U
024271	TRAN2	024250S, 024265U
024314	TRANAUNEG	024267U, 024275U
025314	TRANS00T	025155S, 025157S, 025161S, 025176S, 025200S, 025202S, 025204S, 025357U
025324	TRANS00T1	025333U
025331	TRANS00T2	025146S, 025167S
025336	TRANS00T3	025351U
025347	TRANS00T4	025147S, 025170S, 025343U
024216	TRANSFORM	023406U, 023447U, 023517U, 023573U, 023633U, 023665U, 024214U, 026060U
004446	TRANSFER	002735U, 002742U
024220	TRANSFM1	024244U
024243	TRANSFM2	024237U
004427	TRANSIT	002766U
003176	TRAP	002773S, 002774U, 003020S, 003021U, 003051S, 003052U, 003104S, 003105U 003131S, 003132U, 003162S, 003163U
004423	TREFIVE	002517U
004612	TRES	002260U, 002264S
005357	TRUNCT	005106U, 010757U, 011041U, 011123U, 022117U
007120	TRY	006346S, 006534S, 006734S
003462	TRYIT	003425S, 003503S
004430	TSEVTZER	001455U, 002672U, 002730U, 002733U, 003244U, 003264U, 004744U
007235	TTSAVE	006665S, 006670U, 006673U, 006676U, 006701U, 006704U, 006707U, 006712U 006714U
007775	TTTTTTTT0	NOT REFERENCED
021275	TTTTTTTT1	NOT REFERENCED
005356	TW00H	005100U, 005114U, 005304U
004472	TW0HUNTH0	002503U
004532	TW0SEV	001353U
014773	TW0V	014745S, 014751S, 014756S, 014762S, 015031U
015016	TW0VA	015000U, 015001S
015022	TW0VB	015002U, 015003S, 015004U, 015005S, 015006S
015011	TW0VC	014776U, 014777S
006063	TW0WDS	006113U
017120	TWELVE	011507U, 016212U
017126	TWLVI0	011462U, 012033U, 012042U, 015313U, 016574S, 016601S
004666	TZERFSEV	002204U

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 TABLE 8-74 CROSS REFERENCE INDEX

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ADDRESS	LABEL	REFERENCES
017111	U12MSK	010106U, 010167U, 010334U, 010440U, 010453U, 010553U, 010624U, 010665U 011216U, 011307U, 011567U, 012162U, 012222U, 012457U, 012545U, 012563U 012737U, 013555U, 013734U, 014376U, 014540U, 014644U, 014774U, 015033U 015402U, 016344U, 016670U, 017300U, 020020U, 020537U
006634	UCHAN	006627U, 006633U
004471	UNEHUNTH0	002225U, 002231U, 002546U
004410	UNESEPT	002052U, 002055U, 002057U, 002066U, 002067U, 002074U, 002076U, 002237U 003326U, 003366U, 003376U, 004721U
004625	UNSTACK	002410U
022056	UP	026150U
021130	UP12	021072U
025706	UPEXEC	022103U
025707	UPLIMIT	022025U, 022222S
016573	UPRAM	010017S, 016626U
016343	USEIT	016341U
013566	VEP	013546S
013444	VER0UT	016743U, 016746S, 016762S
024176	VERFTRFM	024034S, 024077S, 024215U
024215	VERFTRFM1	024211U, 024213U
024175	VERFYDIO1	024171U, 024173U
025710	VERIFY	024247S, 024276U
024157	VERIFYDIO	024012S, 024033S, 024055S, 024076S, 024175U
013503	VR0UT2	016707U, 016710S, 016720S
003200	W0LF	003015U, 003016U, 003047U, 003126U, 003127U, 003160U
000667	WORD	006501U, 006502U, 006505U
022274	W0RST1	022307U
022303	W0RST2	022277U
022305	W0RST3	022302U
022311	W0RST4	022354U
022337	W0RST5	022314U
022343	W0RST6	022340U
022352	W0RST7	022325U
022353	W0RST8	022316U, 022342U
022266	W0RSTB	NOT REFERENCED
022256	W0RSTPTTN	022075S, 022171S, 022244S, 022246S, 022376U
022326	W0RTA	022074S, 022170S, 022320U, 022370U
022357	W0RTB	022076S, 022172S, 022344U, 022372U
022370	W0RTC	022356U

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ADDRESS	LABEL	REFERENCES
022436	W0RTD	022100S, 022174S, 022420U, 022432U
022476	W0RTF	022101S, 022175S, 022464U, 022507U
022507	W0RTG	022475U
013247	WACKQ	016763S
013032	WAITCK	010043S, 013033U, 013040U, 013050U, 013051U, 013056U
004607	WASTE	001320S, 001632S, 001633U, 001640S, 001641U, 001657S, 001660U, 001703S 001714S, 001722U, 002053S, 002054U, 002122S, 002123S, 002124U, 002200S 002202S, 002203U, 002312S, 002314S, 002315U, 002324S, 002325U, 002334S 002336S, 002337U, 002344S, 002346S, 002347U, 002355S, 002414U, 002416S 002427U
004617	WASUP	001701S, 001715S, 001716U, 002215S, 002217S, 002220U
003446	WATCHIT	003476U, 003501U
007075	WD	006667U, 006671S, 006764U, 006765U, 007026U, 007030S
004644	WEED0UT	000741U
004643	WEED0UT1	000760U
004636	WEED0UT2	000732U
004637	WEED0UT3	000734U
004640	WEED0UT4	000743U
004642	WEED0UT5	000753U
006534	WERR0R	006514U, 006601U
007100	WRITE	006437U, 006440U, 006450U, 006451U, 006700U, 006702S, 007037U, 007041S
013056	WTEINT	007730U
007141	WTFIL	006324S, 006332U, 006602S
007730	WTINTL	013055U
006736	WTRRG	006540S, 006744U, 007211U, 007212U, 007276U, 007303S
007103	WXRG	006711U, 006713S, 006740U, 006741U, 007053U, 007055S
024011	XD1	024006U
024013	XD2	024010U
023773	XDI0DE	NOT REFERENCED
024032	XG1	024027U
024035	XG2	024031U
024017	XGR0UP	024000U, 024002U
025505	XSTACK	022177S, 025506U, 025560U
025527	XSTACK1	025524U
025542	XSTACK2	025515U
025553	XSTACK3	025526U
025557	XSTACK4	025535U, 025551U

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TABLE 8-74 CROSS REFERENCE INDEX

ADDRESS	LABEL	REFERENCES
024224	XTRANSFM	NOT REFERENCED
000000	XX	010115U, 010117U, 010121U, 010215U, 010221U, 010224U, 010225U, 010227U
		010233U, 010236U, 010237U, 010241U, 010245U, 010250U, 010251U, 010344U
		010345U, 010350U, 010353U, 010457U, 010460U, 010466U, 010467U, 010470U
		010571U, 010572U, 010577U, 010600U, 010601U, 010633U, 010634U, 010636U
		010705U, 010710U, 010713U, 010716U, 011003U, 011006U, 011234U, 011336U
		011341U, 011345U, 011353U, 011355U, 011357U, 011413U, 011417U, 011421U
		011424U, 011433U, 011441U, 011444U, 011450U, 011604U, 011607U, 011610U
		011613U, 011623U, 011656U, 011662U, 012173U, 012176U, 012227U, 012234U
		012467U, 012474U, 012500U, 012505U, 012570U, 012573U, 012574U, 012577U
		012704U, 012711U, 012750U, 012754U, 012755U, 012761U, 016131U, 016335U
		016401U, 016554U, 017071U, 017315U, 017321U, 017322U, 017326U, 017327U
		017333U, 021106U, 021111U, 021114U
017545	YAP	017541S, 017546U
024054	YD1	024051U
024056	YD2	024053U
024041	YDI0DE	024021U, 024023U
024075	YG1	024072U
024100	YG2	024074U
024062	YGROUP	024043U, 024045U
017542	YIP	017534U, 017537S
024234	YTRANSFM	024227U
006520	Z1	006640S, 007274U
006771	Z10	006647S, 007243U
007242	Z10M1J	006761U
007243	Z10M1P	007242U
006527	Z2	006641S
006747	Z3	006642S, 007277U
006756	Z4	006643S, 007237U
007236	Z4M1J	006746U
007237	Z4M1P	007236U
006371	Z5	006644S, 007267U
006400	Z6	006645S, 007241U
007240	Z6M1J	006370U
007241	Z6M1P	007240U
006762	Z7	006646S, 007213U, 007214U, 007300U
013174	ZAAA	013160S
013303	ZAAB	013267S

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ADDRESS	LABEL	REFERENCES
021120	ZER0	020065U, 020216U, 020461U
004420	ZEROCING	000766U, 004727U, 004750U
004453	ZERODEUX	000751U, 001534U, 002106U, 002167U, 002172U, 003536U, 003542U, 003544U 004740U
004712	ZER0OUTRE	004707U
004425	ZER0SEPT	001221U, 001430U, 001467U, 001556U, 001561U, 001605U, 002274U, 002276U 002646U, 002711U, 002745U, 002746U, 002761U, 003265U, 003266U
004652	ZER0SEVEN	002201U, 002206U, 002235U, 003327U, 003364U
004647	ZER0SIX	000771U, 001450U, 001525U, 002010U, 002012U, 002156U, 002161U, 002174U 003537U, 003543U
004662	ZER0TROIS	000766U
004646	ZER0UNE	000737U, 001532U, 002025U, 002031U, 002110U, 002140U, 002151U, 002163U 002470U
005777	ZPAC	007234U
007710	ZR0L	0123438
012344	ZROM0N	007710U, 012266U, 012315U, 012326U, 012345U, 012353U, 012362U, 012404U
004610	ZWEI	0035658, 003607U, 003611U, 0036148, 003617U
003604	ZWEITE	003615U
021060	ZZ	NOT REFERENCED
177777	ZZZZZZZZZZ	NOT REFERENCED

CHANGE 7

8-1647/(8-1648 Blank)

TABLE 8-74 CROSS REFERENCE INDEX

NAVSEA OP 3514 (PMS/SMS) VOLUME 2 PART 2A

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