



AFLOAT

Main Propulsion (Gas Turbine)

(3MT)

Checklist

UPDATED April 2016

SAFETY REVIEW ITEMS - Main Propulsion (Gas Turbine)

01. Main Shafting/Spring Bearings

1. (E1B0) ARE THERMOMETERS INSTALLED?
REF: NSTM 244 -2.4.3.13
GSO 244 B.3

C R NA UA
 Repeat
 Significant
 PMS

2. (E1C0) ARE BEARING SUMP DRAINS PROPERLY INSTALLED?
REF: COMNAVSURFLANTINST/PACINST 3540.22

C R NA UA
 Repeat
 Significant
 PMS

3. (E1D0) IS PHYSICAL SECURITY IN PLACE FOR EQUIPMENT REQUIRING LOCKS OR LOCKING DEVICE?
REF: COMNAVSURFORINST 3540 Series 4407

C R NA UA
 Repeat
 Significant
 PMS

4. (E1F0) ARE BULKHEAD SEALS IN GOOD MECHANICAL CONDITION, SELF ALIGNING AND CAPABLE OF BEING ACTIVATED FROM EITHER SIDE OF THE BULKHEAD AND NOT IN CONTACT WITH THE SHAFT WHEN NOT IN USE?
REF: GSO 244 B9
PMS MIP 2400 30M-2R (CG)
PMS MIP 2400 24M-1R (FFG)
PMS MIP 2400 A-1R/A-2R (DDG)

C R NA UA
 Repeat
 Significant
 PMS

02. Main Shaft Seal

5. (E2A0) IS EMERGENCY PACKING / INFLATION HOSES STOWED IN VICINITY OF STERN TUBE SEAL?
REF: NSTM 244 -6.5
GSO 244 B8 (2)

C R NA UA
 Repeat
 Significant
 PMS

6. (E2B0) ARE COOLING WATER PIPING/VALVES IN GOOD OVERALL CONDITIONS (NO SIGNS OF LEAKAGE, DENTS, GOUGES, CORROSION, ETC.)?

REF: NSTM 505

NSTM 244 -6.4 FIGURE 244-6-12

GSO 244 B8

C R NA UA

Repeat

Significant

PMS

7. (E2C0) ARE GAUGES INSTALLED/CALIBRATED?

REF: GSO 504 E

GSO 504 F

GSO 504 G

NSTM 504 -3.7.1

PMS MIP 9802

C R NA UA

Repeat

Significant

PMS

8. (E2E0) IS THERE A MEANS FOR INFLATING SEAL?

REF: PMS MIP 2400 S-2 (DDG)

NSTM 244 -6.3.3

PMS MIP 2400 S-5 (CG)

PMS MIP 2400 S-2 (FFG)

C R NA UA

Repeat

Significant

PMS

9. (E2F0) IS PMS BEING ACCOMPLISHED ON CO2/N2 BOTTLE FOR SEAL?

REF: PMS MIP 2400 24M-3R

C R NA UA

Repeat

Significant

PMS

10. (E2G0) IS THERE A SHAFT SEAL COOLING WATER SYSTEM OPERATING INSTRUCTION AND CASUALTY CONTROL PROCEDURES AVAILABLE FOR THE WATCHSTANDERS?

REF: EOSS

C R NA UA

Repeat

Significant

PMS

11. (K1A0) ARE GAS TURBINE MODULES FREE OF FUEL OIL LEAKS?
REF: GGTB 17
NSTM 505 -8.3

C R NA UA
 Repeat
 Significant
 PMS

12. (K1B0) ARE GAS TURBINE MODULES FREE OF LUBE OIL LEAKS?
REF: GGTB 17
NSTM 505 -8.3

C R NA UA
 Repeat
 Significant
 PMS

13. (K1B1) CAN THE SHIP PROVIDE DOCUMENTATION WHEN THE GTM FIRE STOPS,
FIRE ALARMS AND FLAME DETECTORS WERE SATISFACTORY TESTED IAW
PMS?
REF: MFGR'S TECHNICAL MANUAL
PMS MIP 2521 R-4, Q-5 (CG)
PMS MIP 2521 S-9 (DDG)
PMS MIP 2521 S-2, S-4, S-5 (FFG)

C R NA UA
 Repeat
 Significant
 PMS

14. (K1C0) ARE GTM MODULE FIRE ALARMS OPERATIONAL AND DO ALARMS SOUND IN
CENTRAL CONTROL STATIONS?
REF: PMS MIP 2521 R-4, Q-5 (CG)
PMS MIP 2521 S-9 (DDG)
PMS MIP 2521 S-2, S-4, S-5 (FFG)

C R NA UA
 Repeat
 Significant
 PMS

15. (K1D0) ARE ELECTRICAL CONNECTIONS FREE OF CORROSION, PROPERLY
INSULATED AND LOCKWIRED?
REF: NSTM 234 -2.2
PMS MIP 2340 R-20
MFGR'S TECH MANUAL

C R NA UA
 Repeat
 Significant
 PMS

16. (K1E0) IS MODULE LIGHTING OPERATIONAL, INTACT AND SHIELDED AND LOCKWIRED?

REF: PMS MIP 3301 S-1
NSTM 634 .9.5.6
MFGR'S TECH MANUAL

C R NA UA
 Repeat
 Significant
 PMS

17. (K1F0) ARE MAIN ENGINE AND MODULE COMPONENTS LOCKWIRED?

REF: MFGR'S TECH MANUAL

C R NA UA
 Repeat
 Significant
 PMS

18. (K1G0) ARE GTM VENTILATION DAMPERS CLEAN AND OPERATIONAL?

REF: NSTM 234 -3.5.5.1

C R NA UA
 Repeat
 Significant
 PMS

19. (K1G1) ARE UPTAKE SPACES IN SATISFACTORY CONDITION AND FREE OF COMBUSTIBLES?

REF: NSTM 555

C R NA UA
 Repeat
 Significant
 PMS

20. (K1M0) ARE INTAKES/UPTAKES THERMAL AND ACCOUSTIC INSULATION PERIODICALLY EXAMINED FOR DETERIORATION? ARE UPTAKE SPACES IN SATISFACTORY CONDITION AND FREE OF COMBUSTIBLES?

REF: NSTM 555
PMS MIP 2513 AP-1
NSTM 234 -5.8.3
PMS MIP 2591 A-1

C R NA UA
 Repeat
 Significant
 PMS

21. (K1M1) ARE INTAKE/UPTAKE THERMAL AND ACOUSTIC INSULATION FREE WATER/OIL SOAKED?

REF: PMS MIP 2591 A-1
PMS MIP 2513 AP-1
NSTM 234 -5.8.3

C R NA UA
 Repeat
 Significant
 PMS

22. (K1O0) IS PROTECTIVE CLOTHING AVAILABLE/UTILIZED WHILE HANDLING SYNTHETIC LUBE OIL MIL-23699?

REF: OPNAVINST 5100.19 Series C2305
NSTM 234 -9.1.2
PMS MIP 2340 R-25

C R NA UA
 Repeat
 Significant
 PMS

23. (K1P0) ARE FUEL OIL FILTER/COALESCERS OPERATIONAL AND FREE OF LEAKS?

REF: NSTM 505 -8.3

C R NA UA
 Repeat
 Significant
 PMS

24. (K1Q0) ARE DEMISTER PADS CLEAN AND IN GOOD MATERIAL CONDITION?

REF: NSTM 234 -3.5.9
GSO 250 C
PMS MIP 2513 AP-1

C R NA UA
 Repeat
 Significant
 PMS

25. (K1R0) ARE BLOW IN DOORS IN GOOD MATERIAL CONDITION?

REF: GGTB 27
NSTM 234 -3.5.11
GSO 259 C
PMS MIP 2513 AP-1

C R NA UA
 Repeat
 Significant
 PMS

26. (K1S0) ARE GTM INSPECTIONS CONDUCTED PRIOR TO PRE-AVAILABILITY AND DEPLOYMENT?

REF: JFMM VOL4 CH23 -3

C R NA UA

Repeat

Significant

PMS

27. (K1U0) IS THERE EVIDENCE OF EXHAUST GAS LEAKS FROM GTM EXHAUST DUCTING?

REF: PMS MIP 2591 A-1

GSO 259 C

PMS MIP 2513 AP-1

C R NA UA

Repeat

Significant

PMS

05. GTG

28. (K2A0) ARE GAS TURBINE GENERATOR MODULES FREE OF FUEL OIL LEAKS?

REF: GGTB 17

NSTM 505 -8.3

C R NA UA

Repeat

Significant

PMS

29. (K2B0) ARE GAS TURBINE GENERATOR MODULES FREE OF LUBE OIL LEAKS?

REF: GGTB 17

NSTM 505 -8.3

C R NA UA

Repeat

Significant

PMS

30. (K2C0) ARE GTG MODULE FIRE ALARMS OPERATIONAL AND DO THEY SOUND IN CENTRAL CONTROL STATION?

REF: NSTM 234 -9.5.1

MFGR'S TECH MANUAL

C R NA UA

Repeat

Significant

PMS

31. (K2D0) ARE ELECTRICAL CONNECTIONS FREE OF CORROSION, PROPERLY INSULATED AND LOCK WIRED?

REF: PMS MIP 3113 R-9 (DDG)
NSTM 234 -9.5.7
PMS MIP 3113 A-1 (CG)
MFGR'S TECH MANUAL

C R NA UA
 Repeat
 Significant
 PMS

32. (K2E0) ARE GTG MODULE LIGHTING OPERATIONAL, INTACT AND PROPERLY LOCK WIRED?

REF: NSTM 234 -9.5.6
PMS MIP 3301 S-1

C R NA UA
 Repeat
 Significant
 PMS

33. (K2F0) ARE GTG AND MODULE COMPONENTS PROPERLY LOCK WIRED?

REF: NSTM 234 -9.5.7
MFGR'S TECH MANUAL

C R NA UA
 Repeat
 Significant
 PMS

34. (K2G0) ARE GTG OPERATING INSTRUCTIONS AND SAFETY PRECAUTIONS POSTED?

REF: NSTM 090 -2.4
OPNAVINST 5100.19 Series C1304 F
NAVSEA LTR SER DTG 24OCT79

C R NA UA
 Repeat
 Significant
 PMS

35. (K2H0) ARE GTG DEMISTER PADS CLEAN AND IN GOOD MATERIAL CONDITION?

REF: PMS MIP 3431 S-8 (CG)
NSTM 234 -3.5.9
PMS MIP 3431 S-5 (DDG)
GSO 3259 C

C R NA UA
 Repeat
 Significant
 PMS

36. (K2I0) ARE GTG BLOW-IN DOORS OPERATIONAL AND IN GOOD MATERIAL CONDITION?

REF: PMS MIP 3431 S-6 (CG)
PMS MIP 2513 S-2 (FFG)
NSTM 234 -3.5.11
GCO 259 C
PMS MIP 3431 S-5 (DDG)

C R NA UA
 Repeat
 Significant
 PMS

37. (K2J0) IS THERE EVIDENCE OF EXHAUST GAS LEAKS FROM GTG EXHAUST DUCTING?

REF: PMS MIP 3113 R-9
GSO 259 C

C R NA UA
 Repeat
 Significant
 PMS

38. (K2K0) ARE GTG INSPECTION CONDUCTED PRIOR TO PRE-AVILABILITY AND DEPLOYMENT?

REF: JFMM VOL4 CH23 -3

C R NA UA
 Repeat
 Significant
 PMS

06. Waste Heat Boilers

39. (L1A0) ARE AUDIBLE ALARMS FOR BOILER OPERATIONAL AT WHB CONTROL PANEL?

REF: NSTM 221 -3.4.3
MIL B -16747C

C R NA UA
 Repeat
 Significant
 PMS

40. (L1B0) IS SAFETY VALVE HAND EASING GEAR INSTALLED AND OPERABLE?

REF: NSTM 221 -3.2.13

C R NA UA
 Repeat
 Significant
 PMS

41. (L1D0) ARE RELIEF VALVES TESTED AND TAGGED INDICATING PRESSURE TESTED, DATE AND TESTING ACTIVITY?

REF: GSO 505 H4

PSM 5000 72M-3

C R NA UA

Repeat

Significant

PMS

42. (L1E0) ARE OPERATION/SAFETY PLACARDS POSTED AT THE SAMPLE COOLERS?

REF: NSTM 220 -27.12

C R NA UA

Repeat

Significant

PMS

43. (L1F0) ARE OPERATION/SAFETY PLACARDS POSTED AT EACH CHEMICAL INJECTION TANK?

REF: NSTM 220 -21.12

C R NA UA

Repeat

Significant

PMS

44. (L1G0) ARE CHAINS INSTALLED ON GAGE GLASS CUTOUTS?

REF: NSTM 221 -3.4.2.12

C R NA UA

Repeat

Significant

PMS

45. (L1I0) IS THERE EVIDENCE OF EXHAUST GAS LEAKS FROM THE BOILER CASING?

REF: NSTM 221 -5.5.3

GSO 221 E

C R NA UA

Repeat

Significant

PMS

46. (L1J0) ARE BOILER ROUTINE AND 5 YEAR INSPECTIONS WITHIN PERIODICITY?

REF: JFMM VOL4 CH3 -3.6.4

C R NA UA

Repeat

Significant

PMS

07. CRP System

47. (M1A0) IS HOPM (HYDRAULIC OIL POWER MODULE) FREE OF OIL LEAKS AND ARE GAUGES CALIBRATED?

REF: NSTM 556 -11.3

NSTM 504 -3.71

C R NA UA

Repeat

Significant

PMS

48. (M1A1) ARE HOPM (HYDRAULIC OIL POWER MODULE) GAUGES CALIBRATED?

REF: NSTM 504 -3.71

NSTM 556 -11.3

C R NA UA

Repeat

Significant

PMS

49. (M1B0) IS OD BOX (OIL DISTRIBUTION) FREE OF OIL LEAKS?

REF: NSTM 556 -11.3

C R NA UA

Repeat

Significant

PMS

50. (M1C0) IS PRAIRIE AIR ROTOSEAL FREE OF OIL LEAKS?

REF: NSTM 556 -11.3

C R NA UA

Repeat

Significant

PMS

51. (M1D0) ARE HYDRAULIC HOSES FOR EMERGENCY PITCH OPERATION AVAILABLE AT OD BOX AND IN GOOD MATERIAL CONDITION?

REF: EOSS/EOCC

NAVSEA S6430-AA-TED-010

C R NA UA

Repeat

Significant

PMS

08. Hearing Conservation

52. (X1A0) ARE NOISE HAZARD SIGNS POSTED IAW THE INDUSTRIAL HYGIENE SURVEY?

REF:

OPNAVINST 5100.19 Series B0406

C R NA UA

Repeat

Significant

PMS

53. (X1B0) ARE HEARING PROTECTION DEVICES AVAILABLE FOR PERSONNEL WORKING IN OR ENTERING DESIGNATED HAZARDOUS NOISE AREA OR UTILIZING HAZARDOUS TOOLS OR EQUIPMENT?

REF: OPNAVINST 5100.19 Series B0406

C R NA UA

Repeat

Significant

PMS

54. (X1C0) ARE PERSONNEL WEARING HEARING PROTECTIVE DEVICES WITHOUT CONSIDERATION FOR THE DURATION OF THE EXPOSURE?

REF: OPNAVINST 5100.19 Series B0406 (A)

C R NA UA

Repeat

Significant

PMS

09. Heat Stress

55. (X1C1) ARE HEAT STRESS THERMOMETERS HUNG WITH A NON-CONDUCTING MATERIAL SUCH AS PLASTIC TIE-WRAP OR STRING (NEVER HUNG WITH METAL WIRE) AND POSITIONED TO MINIMIZE THE INFLUENCE OF ADJACENT OR LOCAL HEAT OR COLD SOURCES?

REF: OPNAVINST 5100.19 Series B0204 (B) (C)

C R NA UA

Repeat

Significant

PMS

56. (X1C2) ARE THERMOMETERS VALIDATED BY ALIGNING THE ETCH MARK WITH THE FREEZING POINT (32 DEGREES FARENHEIT)?

REF: OPNAVINST 5100.19 Series B0204 (B) (C)

C R NA UA

Repeat

Significant

PMS

10. Sight Conservation

57. (X1D0) ARE PROPER EYE/FACE WASH UNITS AVAILABLE WHERE REQUIRED AS IDENTIFIED IN THE BASELINE AND/OR RECENT INDUSTRIAL HYGINE SURVEY?

REF: OPNAVINST 5100.19 SERIES B0508 (a) (9), appendix b5-a

C R NA UA

Repeat

Significant

PMS

58. (X1E0) ARE REQUIRED EYE WASH STATION LOCATION SIGNS POSTED AND POTABLE WATER SUPPLY VALVES LOCKED OPEN WITH A METAL, TAMPER-PROOF LANYARD AND MARKED AS A "W" (OR "CIRCLE "W") FITTING?
REF: OPNAVINST 5100.19 SERIES B0508

C R NA UA
 Repeat
 Significant
 PMS

59. (X1E1) ARE POTABLE WATER SUPPLY VALVES LOCKED OPEN WITH A METAL, TAMPER-PROOF LANYARD AND MARKED "W" (OR "CIRCLE "W") FITTING?
REF: OPNAVINST 5100.19 SERIES B0508

C R NA UA
 Repeat
 Significant
 PMS

11. Deck Plates and Grating

60. (X2A0) ARE DECK PLATES FIRMLY FASTENED WITH 1.25 FASTENERS PER SQUARE INCH OF PLATE BUT NO LESS THAN TWO AND INSTALLED ON DIAGONALLY OPPOSITE SIDES?

REF: GSO 622 (d)
NAVSEA DWG 803-1340709 note (1)

C R NA UA
 Repeat
 Significant
 PMS

61. (X2A1) ARE ACCESS LADDERS SECURELY FIXED IN PLACE?

REF: GSO 622 (C)
NAVSEA DWG 803-1340709 note (1)

C R NA UA
 Repeat
 Significant
 PMS

62. (X2B0) ARE DECK PLATES AND LADDERS FABRICATED OF PROPER MATERIAL (ALUMINUM OR CRES STEEL 304)?

REF: NAVSEA STD DWG 803-1340709
GSO 622 (c) (d)

C R NA UA
 Repeat
 Significant
 PMS

63. (X2C0) ARE ALL BILGE DRAINAGE SUCTION STRAINERS IN PLACE?
REF: NSTM 505 -10.7.3

C R NA UA
 Repeat
 Significant
 PMS

12. Fasteners

64. (X3A0) ARE THREADED FASTENERS, WHEN INSTALLED AND TIGHTENED, PROTRUDE A DISTANCE OF AT LEAST ONE (1) THREAD BEYOND THE TOP OF THE NUT OR PLASTIC INSERT?

REF: GSO 075 (b)
NSTM 075 -7.5.1

C R NA UA
 Repeat
 Significant
 PMS

65. (X3B0) ARE THE NUMBER OF THREADS PROTRUDING BEYOND THE TOP OF THE NUT OR PLASTIC INSERT SHOULD NOT EXCEED FIVE (5) THREADS, IN NO CASE SHALL THE PROTRUSION EXCEED TEN (10) THREADS IAW NSTM 075?

REF: NSTM 075 -7.5.1
GSO 075 (b)

C R NA UA
 Repeat
 Significant
 PMS

66. (X3E0) ARE FERROUS (CARBON STEEL) FASTENERS PRESENT IN SEAWATER OR IN OTHER SYSTEMS (FRESH WATER, OR FEED) WHERE NON-FERROUS PIPING IS INSTALLED?

REF: NSTM 075 -3.3.3.2 (warning note)

C R NA UA
 Repeat
 Significant
 PMS

13. Instructions and Safety Precautions

67. (X4A0) ARE REQUIRED WARNING, CAUTION, OPERATING, AND INSTRUCTION PLATES AND CHARTS POSTED TO MINIMIZE THE POSSIBILITY OF INJURY TO PERSONNEL OR DAMAGE MACHINERY, EQUIPMENT OR SYSTEMS DUE TO FAULTY OPERATION RESULTING FROM THE LACK OF POSTED INSTRUCTIONS OR WHEREVER SPECIAL SAFETY PRECAUTIONS MUST BE EXERCISED?

REF: NAVSHIPS DWG 805-1640412
GSO 602 (h)
NSTM 090 -2.4.1

C R NA UA
 Repeat
 Significant
 PMS

68. (X4B0) ARE IDENTIFICATION PLATES INDICATING MAXIMUM ALLOWABLE LOADS OR TEST DATA INSTALLED BY LIFTING PADS OVER HEAVY EQUIPMENT?

REF: NAVSHIPS DRWG S2803-980208
NAVSHIPS DRWG S2803-980209
GSO 602 (g)

C R NA UA
 Repeat
 Significant
 PMS

69. (X4B1) ARE CHAIN FALLS OR MONORAIL HOISTS WEIGHT TESTED AND TEST DATA TAGS ATTACHED TO EQUIPMENT?

REF: PMS MIP 6645 A-1
PMS MIP 6645 60M-1R

C R NA UA
 Repeat
 Significant
 PMS

70. (X4C0) IS THE ENGINEERING OPERATIONAL SEQUENCE SYSTEM (EOSS) IN USE?

REF: EDORM

C R NA UA
 Repeat
 Significant
 PMS

71. (X4D0) ARE CURRENT "TAG OUT" PROCEDURES IN USE?

REF: NAVSEA S0400-AD-URM-010/TUM (Tag Out User's Manual),
current revision.
OPNAVINST 3120.32 SERIES 630.17

C R NA UA
 Repeat
 Significant
 PMS

14. Hazardous Materials

72. (X5A0) ARE TOXIC OR HIGHLY FLAMMABLE MATERIALS (FLASH POINT 200 DEGREES AND BELOW) STOWED IN MACHINERY SPACES?

REF: NSTM 670-17.3.2.2.2

OPNAVINST 5100.19 Series c2302

C R NA UA

Repeat

Significant

PMS

73. (X5B0) ARE ALL HAZARDOUS MATERIAL CONTAINERS CLEARLY LABELED WITH MATERIAL NAME, MANUFACTURES NAME AND ADDRESS, STOCK NUMBER, HCC AND THE NATURE OF THE HAZARD PRESENTED BY THE HM INCLUDING THE TARGET ORGAN?

REF: NSTM 670 -3.2.3

C R NA UA

Repeat

Significant

PMS

74. (X5B1) ARE HAZARDOUS MATERIALS PROPERLY STOWED?

REF: NSTM 670 -3

C R NA UA

Repeat

Significant

PMS

15. System and Equipment Monitoring

75. (X6A0) ARE GAGES AND INDICATORS PROPERLY MOUNTED?

REF: NSTM 504 -3.5.5

GSO 504 (b) (d) (e) (g) (k) (l)

C R NA UA

Repeat

Significant

PMS

76. (X6B0) ARE LIQUID COLUMN SIGHT GLASS PROTECTIVE GUARDS PROPERLY INSTALLED?

REF: NAVSHIPS DRWG 803-2145532

GSO 504 (k)

C R NA UA

Repeat

Significant

PMS

77. (X6C0) ARE CRITICAL AND NON-CRITICAL GAGES AND INDICATORS CALIBRATED AND IN GOOD CONDITION?

REF: PMS MIP 9802
GSO 504 (Q)
NSTM 504 -3.7.1
SHIP CRL

C R NA UA
 Repeat
 Significant
 PMS

16. Pumps and Auxiliary Machinery

78. (X7B0) ARE MACHINERY FOUNDATIONS IN SATISFACTORY CONDITION, FREE OF CRACKS AND BASE METAL DETERIORATION FROM CORROSION AND MECHANICAL JOINTS TIGHTENED?

REF: GSO 100 F
PMS MIP 6300/001 S-1

C R NA UA
 Repeat
 Significant
 PMS

79. (X7C0) ARE COUPLING GUARDS INSTALLED ON ROTATING MACHINERY?

REF: GSO 070 (H)
OPNAVINST 5100.19 Series C1302 (A) (16)
OPNAVINST 5100.19 Series C0104 (A) (4)

C R NA UA
 Repeat
 Significant
 PMS

80. (X7C1) ARE COUPLING/BELT GUARDS PAINTED RED FOR ROTATING MACHINERY?

REF: OPNAVINST 5100.19 Series C0104 (A) (4)

C R NA UA
 Repeat
 Significant
 PMS

81. (X7D0) ARE EQUIPMENT OPERATING INSTRUCTIONS AND SAFETY PRECAUTIONS POSTED?

REF: GSO 602 (H)
NAVSHIPS DWG 804-1640412
NSTM 090 -2.4.1

C R NA UA
 Repeat
 Significant
 PMS

17. Flexible Hoses

82. (X8A0) ARE FLEXIBLE HOSE ASSEMBLIES PROPERLY INSTALLED?
REF: NAVSEA S6430-AE-TED-010 VOL.1 (SECTION 9)
PMS MIP 5000/009 S-1/A-1/A-2

C R NA UA
 Repeat
 Significant
 PMS

83. (X8A1) ARE FLEXIBLE HOSE ASSEMBLIES FREE OF TWIST BETWEEN FITTINGS
AND PROPERLY SUPPORTED AGAINST RESILIENTLY MOUNTED EQUIPMENT
TO PREVENT CHAFING?
REF: NAVSEA S6430-AE-TED-010 VOL.1 (SECTION 9)
PMS MIP 5000/009 S-1/A-1/A-2

C R NA UA
 Repeat
 Significant
 PMS

84. (X8A2) ARE FLEXIBLE HOSE ASSEMBLIES FREE OF EXCESSIVELY SAGGING OR
UNDULY STRESSED?
REF: PMS MIP 5000/009 S-1/A-1/A-2
NAVSEA S6430-AE-TED-010 VOL.1 (SECTION 9)

C R NA UA
 Repeat
 Significant
 PMS

85. (X8B0) ARE FLEXIBLE HOSES PROPERLY IDENTIFIED WITH A NONCORRODIBLE
METAL TAG THAT HAD THE SHIP ID., HOSE TYPE/SIZE, SYSTEM
PRESSURE AND INSTALLATION DATE?
REF: PMS MIP 5000/009 S-1/A-1/A-2
NAVSEA S6430-AE-TED-010 VOL.1 (SECTIONS 8.5 AND 9)

C R NA UA
 Repeat
 Significant
 PMS

86. (X8C0) ARE FLEXIBLE HOSES PAINTED (A FEW SPOTS INADVERTENTLY SPLASHED
ON THE HOSE IS ACCEPTABLE) AS LONG AS PAINTED AREA IS 10% OR
LESS THAN THE HOSE SURFACE AREA?
REF: PMS MIP 5000/009 S-1/A-1/A-2
NSTM 631 VOL. 3 (8.22.1.Z)
NAVSEA S6430-AE-TED-010 VOL.1 (SECTION 9.J, 10.J)

C R NA UA
 Repeat
 Significant
 PMS

87. (X8D0) ARE FLEXIBLE HOSES EXCESSIVELY SOFT?

REF: PMS MIP 5000/009 S-1/A-1/A-2

NAVSEA S6430-AE-TED-010 VOL.1 (SECTION 10. 0

C R NA UA

Repeat

Significant

PMS

18. Rubber Expansion Joints

88. (X9A0) ARE RUBBER EXPANSION JOINTS PROPERLY INSTALLED AND ALIGNED?

REF: NSTM 505 -3.3 (table 505-3-1)

C R NA UA

Repeat

Significant

PMS

89. (X9B0) ARE RUBBER EXPANSION JOINTS FREE OF CRACKS AND CUTS?

REF: NSTM 505 -3.3.3

C R NA UA

Repeat

Significant

PMS

90. (X9C0) ARE RUBBER EXPANSION JOINTS FREE OF PAINT?

REF: NSTM 631 VOL1 (8.17.1.z)

C R NA UA

Repeat

Significant

PMS

19. Escape Trunks

91. (Y0A0) ARE THERE OBSTRUCTIONS AT THE ESCAPE TRUNKS?

REF: OPNAVINST 5100.19 Series c0102 (a) (3)

OPNAVINST 5100.19 Series c0102(a) (6)

C R NA UA

Repeat

Significant

PMS

92. (Y0B0) ARE LADDER RUNGS CONTINUOUS AROUND TWO BULKHEADS?

REF: NAVSEA DWG 804-5184093

GSO 622 C

C R NA UA

Repeat

Significant

PMS

93. (Y0C0) DOES ESCAPE TRUNK BALANCE JOINER DOOR HAVE TWO CLOSING SPEEDS (DOOR SHOULD TRAVEL THROUGH INITIAL CLOSING ARC AT A REASONABLY FAST RATE AND SLOW DURING FINAL 8" to 10" OF CLOSING SO DOOR DOES NOT SLAM. THE NOMINAL SPEED RANGE IS 6 TO 8 SECONDS, HOWEVER DOOR CLOSING SPEED SHALL NOT BE LESS THAN 5 SECONDS AND NO GREATER THAN 10 SECONDS)?

REF: NAVSEA DWG 804-5184129

PMS MIP 6241/002 S-3

GSO 624 J

PMS MIP 6241/002 S-4

PMS MIP 6241/002 S-1

C R NA UA

Repeat

Significant

PMS

94. (Y0D0) ARE ESCAPE TRUNKS WELL LIT AND HAVE EMERGENCY LIGHTING?

REF: NSTM 330 -1.6.4.2

GSO 332 G

GSO 332 E

C R NA UA

Repeat

Significant

PMS

95. (Y0E0) ARE LABEL PLATES INSTALLED ON TOP OF ESCAPE SCUTTLES INSCRIBED WITH 1-INCH RED LETTERS THAT STATE "ESCAPE SCUTTLE DO NOT OBSTRUCT OR BLOCK"?

REF: NAVSHIPS DRWG 805-1640412

GSO 602 J

C R NA UA

Repeat

Significant

PMS

20. Lagging/insulation

96. (Y1A0) IS LAGGING/INSULATION ADEQUATE?

REF: NSTM 635 (SECTIONS 2 AND 3)

GSO 508 (B)

C R NA UA

Repeat

Significant

PMS

97. (Y1B0) IS LAGGING/INSULATION TORN OR MISSING (SEAM INTACT AND TAPED / PIN / STUDS SECURE)?

REF: NSTM 635 -2.9.1

C R NA UA

Repeat

Significant

PMS

98. (Y1C0) IS LAGGING/INSULATION OIL / WATER SOAKED?

REF: NSTM 635 -2.9.1(6)

C R NA UA

Repeat

Significant

PMS

21. Reduction Gear Security

99. (Y2A0) ARE MEDIUM OR HIGH SECURITY PADLOCKS INSTALLED (ISEA ADVISORY NUMBER 006-01 VERIFY S&G MODEL 833 HIGH SECURITY LOCKS HAVE BEEN CHANGED OUT WITH ABLOY MODEL PL655 OR PL656)?

REF: ISEA ADVISORY NR 006-01

NSTM 241 -4

C R NA UA

Repeat

Significant

PMS

100. (Y2B0) ARE ALL OTHER ACCESSES PROTECTED FROM UNAUTHORIZED ENTRY?

REF: NSTM 241 -4.2.4 c

C R NA UA

Repeat

Significant

PMS

101. (Y2C0) DO VENT FOG PRECIPITATORS / MIST ELIMINATORS APPEAR TO BE IN SATISFACTORY MATERIAL CONDITION?

REF: GSO 262 C

NSTM 262 -3.1.2 I

NAVSEA STD DWG 803-2145504

NSTM 241 -2.3.14

C R NA UA

Repeat

Significant

PMS

102. (Y2C1) DO VENT FOG PRECIPITATORS / MIST ELIMINATORS HAVE A WARNING PLATE POSTED INSCRIBED WITH "WARNING HIGH VOLTAGE"?

REF: NSTM 241 -2.3.14
NAVSEA STD DWG 803-2145504
NSTM 262 -3.1.2 I
GSO 262 C

C R NA UA
 Repeat
 Significant
 PMS

103. (Y2D0) ARE INSTALLED REDUCTION GEAR DEHUMIDIFIERS MAINTAINING AIR IN THE MRG CASING AT LESS THAN 35 PERCENT RELATIVE HUMIDITY?

REF: NSTM 241 -3.5.2.4
EOSS

C R NA UA
 Repeat
 Significant
 PMS

22. Lube Oil System

104. (Y5A0) ARE THERE LATCHING DEVICES FOR ALL MAIN LUBE OIL PUMPS SUCTION AND DISCHARGE VALVES TO PREVENT SHUTING?

REF: EDORM SEC 4407 (b) (3)

C R NA UA
 Repeat
 Significant
 PMS

105. (Y5B0) ARE PURIFIER DRAINS PIPED TO CONTAMINATED OIL TANK?

REF: NSTM 541-4.7.3
GSO 534 (C) (3)
GSO 262 (c) (3)

C R NA UA
 Repeat
 Significant
 PMS

106. (Y5C0) DOES THE LUBE OIL STORAGE AND SETTLING TANKS HAVE OVERFLOW AND DRAIN CONNECTIONS LEADING TO THE OILY WATER DRAIN OR WASTE COLLECTING SYSTEM?

REF: NSTM 541-4.7.3
GSO 262 (C) (2)

C R NA UA
 Repeat
 Significant
 PMS

107. (Y5D0) ARE STRAINERS PROVIDED WITH PROTECTIVE COVERS?
REF: NSTM 505 -10.3.1.2
GSO 505 (E) (7)
NSTM 079 -46.5.3.1

C R NA UA
 Repeat
 Significant
 PMS

108. (Y5E0) ARE STRAINERS PROVIDED WITH VENT/DRAIN VALVES?
REF: NSTM 505 -10.3.1.6

C R NA UA
 Repeat
 Significant
 PMS

109. (Y5F0) ARE STRAINERS PROVIDED WITH DRIP PANS?
REF: NSTM 505 -10.3.1.6.1 (12)
GSO 262 (C) (1)

C R NA UA
 Repeat
 Significant
 PMS

23. Oil Piping Flange Shields

110. (Y6A0) ARE LUBE OIL AND FUEL OIL PIPING FLANGE SHIELDS OF CORRECT MATERIAL?
REF: NSTM 505 FIG 505-7-15
NSTM 505 -7.9.4.1
GSO 505 E
NAVSEA DRAWING 803-2145518
NSTM 233 -7.9
GSO 502 B

C R NA UA
 Repeat
 Significant
 PMS

111. (Y6B0) ARE FLANGE SHIELDS PROPERLY INSTALLED?
REF: GSO 505 (E) (7)
NSTM 505 -7.9.4.2

C R NA UA
 Repeat
 Significant
 PMS

112. (Y6C0) ARE ANY FLANGE SHIELDS MISSING?
REF: NSTM 505 -7.9.4.5
GSO 505 (e) (7)

C R NA UA
 Repeat
 Significant
 PMS

24. Valves and Valve Operators

113. (Y7A0) ARE REMOTE OPERATED VALVES OPERATIONAL AND PROPERLY ATTACHED?
REF: GSO 505 (e) (4) (b)
NSTM 505 -1.8.2

C R NA UA
 Repeat
 Significant
 PMS

114. (Y7B0) ARE VALVE HANDWHEELS PROPERLY SECURED AND LABELED?
REF: NAVSEA S0400-AD-URM-010/TUM (TAG OUT USERS MANUAL)
1.6.4.a(1)
NSTM 505 -7.8.2.2
GSO 507 F

C R NA UA
 Repeat
 Significant
 PMS

115. (Y7C0) ARE HANDWHEELS MADE OF PROPER MATERIALS?
REF: GSO 505 C2
NAVSHIPS DWG 803-1385620.

C R NA UA
 Repeat
 Significant
 PMS

116. (Y7D0) ARE VALVE HANDWHEELS PROPERLY COLOR CODED?
REF: NSTM 505 -7.8.2.2

C R NA UA
 Repeat
 Significant
 PMS

25. Sea Chest Blow Out

117. (Y8A0) ARE WARNING PLATES STATING "DO NOT PERMIT STEAM OR AIR PRESSURE TO EXCEED 35 POUNDS WHEN BLOWING-OUT SEA CHEST" AND OPERATING INSTRUCTIONS INSTALLED BETWEEN THE NEEDLE VALVE AND HOSE VALVE FOR THE SEA CHEST?
REF: GSO 253 (d) (2)
PMS MIP 1631 18M-1

C R NA UA
 Repeat
 Significant
 PMS

118. (Y8B0) IS THERE A RELIEF VALVE SET AT 40 PSI AND A CONNECTION FOR BLEEDING STEAM/AIR PRESSURE ON THE SEA CHEST BLOW OUT SYSTEM?
REF: NSTM 505 -10.3.1.9
GSO 253 (d) (2)

C R NA UA
 Repeat
 Significant
 PMS

119. (Y8C0) IS THERE A PRESSURE GAGE INSTALLED IN THE STEAM OR AIR PRESSURE SUPPLY LINE FOR THE SEA CHEST BLOW OUT?
REF: GSO 253 (D) (2)
NSTM 505 -10.3.1.9,

C R NA UA
 Repeat
 Significant
 PMS

26. Piping Systems

120. (Y9A0) ARE PIPING SYSTEMS ADEQUATELY LABELED?
REF: NSTM 505 table 505-7-1
NSTM 505 -7.8.3

C R NA UA
 Repeat
 Significant
 PMS

121. (Y9B0) ARE PIPING SYSTEMS PROPERLY COLOR CODED?
REF: NSTM 505 -7.8.2
NSTM 505 table 505-7

C R NA UA
 Repeat
 Significant
 PMS

122. (Y9C0) ARE PIPING SUPPORT DEVICES PROPERLY MAINTAINED?

REF: GSO 505 (c) (4)
NAVSHIPS DWG 804-1385781
NSTM 505 -7.5

C R NA UA
 Repeat
 Significant
 PMS

123. (Y9D0) ARE FLAMMABLE SYSTEMS LEAK TIGHT (NO VISIBLE EVIDENCE OF LEAK)?

REF: NSTM 505 -8.3.1.

C R NA UA
 Repeat
 Significant
 PMS

124. (Y9E0) ARE NON-FLAMMABLE SYSTEMS LEAK TIGHT?

REF: NSTM 505 -8.3.

C R NA UA
 Repeat
 Significant
 PMS

125. (Y9F0) ARE WARNING PLATES INSCRIBED "WARNING ENSURE THAT THE ISOLATION VALVES ON EACH SIDE OF THE PRESSURE REGULATOR ARE CLOSED BEFORE OPENING THE BY-PASS VALVE", INSTALLED ON REDUCER BYPASS VALVES?

REF: NSTM 505-9.18.6
GSO 505 -b7

C R NA UA
 Repeat
 Significant
 PMS

27. Relief Valves

126. (Z0A0) DO RELIEF VALVES APPEAR TO BE IN GOOD WORKING ORDER (FREE OF BROKEN SPRINGS, LEAKING, BENT STEMS OR CORRODED)?

REF: NSTM 505 -9.18.2.

C R NA UA
 Repeat
 Significant
 PMS

127. (Z0B0) ARE RELIEF VALVES PROPERLY LABELED?

REF: PMS 5000 72M-3

GSO 505 (E) (1).

C R NA UA

Repeat

Significant

PMS

128. (Z0C0) ARE RELIEF VALVES EQUIPPED WITH A TAIL PIPE THAT DOES NOT STRESS THE VALVE BODY AND DISCHARGES WHERE IT DOES NOT CREATE A HAZARD TO PERSONNEL OR EQUIPMENT?

REF: GSO 505 (E) (1)

NSTM 505 -9.17.3

C R NA UA

Repeat

Significant

PMS

129. (Z0D0) ARE METAL TAGS PROVIDED TO INDICATE SHIP NAME AND HULL NUMBER, DATE OF LIFT TEST, LIFTING PRESSURE, VALVE NUMBER OR IDENTIFICATION?

REF: GSO 505 (H)

NSTM 505 -9.17.5.2

C R NA UA

Repeat

Significant

PMS

28. Eductors and Bilge Drainage

130. (Z1A0) ARE SUCTION STRAINERS INSTALLED AND IN GOOD OVERALL CONDITION (NO SIGNS OF DENTS, GOUGES, CORROSION, BLOCKAGES)?

REF: GSO 529 (j)

NSTM 505 -10.7.3

C R NA UA

Repeat

Significant

PMS

131. (Z1B0) IS THERE A MINIMUM OF ONE SPACE SUCTION VALVE WHICH IS OPERABLE FROM THE DAMAGE CONTROL DECK?

REF: MILSPEC E-24127

GSO 529 (J)

C R NA UA

Repeat

Significant

PMS

132. (Z1C0) ARE EDUCTORS AND BILGE DRAINAGE SYSTEM OPERATING INSTRUCTIONS POSTED?

REF: NSTM 505 -10.7.2
NSTM 505 -10.7.6
GSO 529 (h)
NSTM 505 -10.7.

C R NA UA
 Repeat
 Significant
 PMS

133. (Z1D0) IS THE OIL POLLUTION ACT POSTED AT THE OVERBOARD DISCHARGE VALVES, DECK RISERS AND PUMPS CAPABLE OF DISCHARGING OILY WASTE?

REF: NSTM 593 -3.7.5
GSO 593 (D)

C R NA UA
 Repeat
 Significant
 PMS

134. (Z1E0) ARE ACTUATING PRESSURE AND SUCTION PRESSURE GAGES INSTALLED AND PRESSURIZED?

REF: GSO 529 -H
NSTM 505 figure 505-10.2
MIP 5291 A-9

C R NA UA
 Repeat
 Significant
 PMS

135. (Z1F0) ARE EDUCTOR SUCTION CUT-OUT VALVES PROVIDED WITH THE WARNING SIGN STATING, "DO NOT OPEN UNTIL VACUUM IS INDICATED ON GAUGE"?

REF: MILSPEC E-24127
GSO 529 (H)

C R NA UA
 Repeat
 Significant
 PMS

136. (Z1G0) ARE EDUCTOR FIREMAIN ACTUATING CUT-OUT VALVES PROVIDED WITH THE WARNING SIGN STATING, "DO NOT OPEN UNTIL OVERBOARD DISCHARGE VALVE IS OPEN"?

REF: MILSPEC E-24127
GSO 529 (H)

C R NA UA
 Repeat
 Significant
 PMS

137. (Z1H0) ARE BILGES CONTAMINATED WITH OIL, FUEL OR TRASH?
REF: EDORM SECTION 4502

C R NA UA
 Repeat
 Significant
 PMS

29. Oil Lab

138. (Z2A0) ARE REQUIRED NUMBER OF MARK II OIL SPILL CLEAN UP KITS ON BOARD?
REF: AEL 2-550024006

C R NA UA
 Repeat
 Significant
 PMS

139. (Z2B0) ARE MARK II KITS FULLY STOCKED AND ACCESSIBLE FOR QUICK USE?
REF: NSTM 593 -3.6.6.2

C R NA UA
 Repeat
 Significant
 PMS

140. (Z2C0) DOES THE SHIP HAVE AN OIL SPILL CONTINGENCY PLAN THAT HAS BEEN TAILORED TO THE SHIP?
REF: OPNAVINST 5100.19 Series b0304 (a) (1) (f)
OPNAVINST 5100.19 Series b0304 (b) (1)
OPNAVINST M 5090.1 Series chapter 35, para 35-3.15.h
OPNAVINST 5100.19 Series b0302 (4) (q)

C R NA UA
 Repeat
 Significant
 PMS

141. (Z2C1) ARE OIL SPILL KITS INSPECTED MONTHLY AND REPLENISHED AS REQUIRED?
REF: OPNAVINST M 5090.1 Series Ch. 35, para 35-3.15
OPNAVINST 5100.19 Series b0302 (4) (q)
OPNAVINST 5100.19 Series b0304 (a) (1) (f)
OPNAVINST 5100.19 Series b0304 (b) (1)

C R NA UA
 Repeat
 Significant
 PMS

142. (Z2E0) ARE PORTABLE ELECTRICAL LABORATORY EQUIPMENT TESTED FOR ELECTRICAL SAFETY IN ACCORDANCE WITH PMS?

REF: PMS MIP 3000/001

C R NA UA

Repeat

Significant

PMS

143. (Z2F0) IS AN APPROVED CORROSIVE LOCKER, < 30 GAL, AVAILABLE TO STORE ACID IN APPROPRIATE CONTAINERS?

REF: NSTM 670 -13.3

NSTM 593 Appendix A and B

NSTM 220 -26

C R NA UA

Repeat

Significant

PMS

144. (Z2G0) HAVE CHEMICALS EXCEEDED THEIR SHELF LIFE?

REF: NSTM 220 -26

C R NA UA

Repeat

Significant

PMS

145. (Z2H0) ARE ALL CHEMICALS STORED IN APPROVED FLAMMABLE OR COOROSIVE LOCKERS, <30 GAL?

REF: NSTM 220 -26

NSTM 670 -12.3.1.b

C R NA UA

Repeat

Significant

PMS

146. (Z2I0) ARE MERCURIC NITRATE REAGENTS DISPOSED OF PROPERLY?

REF: NSTM 670-13.8

OPNAVINST 5100.19 Series APPENDIX B-3-B

NSTM 670-37.8

C R NA UA

Repeat

Significant

PMS

30. Underway Operations

147. (Z3A0) IS ORM APPLIED NOT ONLY TO OPERATIONAL MISSIONS, BUT AT THE DECK PLATE LEVEL FOR DAY TO DAY WORK UNIT OPERATIONS AS WELL?
REF: OPNAVINST 5100.19 Series A0402.C

C R NA UA
 Repeat
 Significant
 PMS

31. Oil Lab

148. (Z2E1) IS NAVI FLASH / APPROVED FLASHPOINT TESTER IN WORKING ORDER AND CALIBRATED?
REF: NSTM 262-5.1.4.1

C R NA UA
 Repeat
 Significant
 PMS

Main Propulsion (Gas Turbine)

COMMAND NAME:

LOCATION:

UIC:

DATE:

SURVEYOR(S):

NO. COMPLETE:

NO. REQ ACTION:

NOT APPLICABLE:

Q #	Question	Result	Sig	Rep	PMS
1	3MTE1B0	C R N U			
2	3MTE1C0	C R N U			
3	3MTE1D0	C R N U			
4	3MTE1F0	C R N U			
5	3MTE2A0	C R N U			
6	3MTE2B0	C R N U			
7	3MTE2C0	C R N U			
8	3MTE2E0	C R N U			
9	3MTE2F0	C R N U			
10	3MTE2G0	C R N U			
11	3MTK1A0	C R N U			
12	3MTK1B0	C R N U			
13	3MTK1B1	C R N U			
14	3MTK1C0	C R N U			
15	3MTK1D0	C R N U			
16	3MTK1E0	C R N U			
17	3MTK1F0	C R N U			
18	3MTK1G0	C R N U			
19	3MTK1G1	C R N U			
20	3MTK1M0	C R N U			
21	3MTK1M1	C R N U			
22	3MTK1O0	C R N U			
23	3MTK1P0	C R N U			
24	3MTK1Q0	C R N U			
25	3MTK1R0	C R N U			
26	3MTK1S0	C R N U			
27	3MTK1U0	C R N U			
28	3MTK2A0	C R N U			
29	3MTK2B0	C R N U			
30	3MTK2C0	C R N U			
31	3MTK2D0	C R N U			
32	3MTK2E0	C R N U			
33	3MTK2F0	C R N U			

Q #	Question	Result	Sig	Rep	PMS
34	3MTK2G0	C R N U			
35	3MTK2H0	C R N U			
36	3MTK2I0	C R N U			
37	3MTK2J0	C R N U			
38	3MTK2K0	C R N U			
39	3MTL1A0	C R N U			
40	3MTL1B0	C R N U			
41	3MTL1D0	C R N U			
42	3MTL1E0	C R N U			
43	3MTL1F0	C R N U			
44	3MTL1G0	C R N U			
45	3MTL1I0	C R N U			
46	3MTL1J0	C R N U			
47	3MTM1A0	C R N U			
48	3MTM1A1	C R N U			
49	3MTM1B0	C R N U			
50	3MTM1C0	C R N U			
51	3MTM1D0	C R N U			
52	3MTX1A0	C R N U			
53	3MTX1B0	C R N U			
54	3MTX1C0	C R N U			
55	3MTX1C1	C R N U			
56	3MTX1C2	C R N U			
57	3MTX1D0	C R N U			
58	3MTX1E0	C R N U			
59	3MTX1E1	C R N U			
60	3MTX2A0	C R N U			
61	3MTX2A1	C R N U			
62	3MTX2B0	C R N U			
63	3MTX2C0	C R N U			
64	3MTX3A0	C R N U			
65	3MTX3B0	C R N U			
66	3MTX3E0	C R N U			
67	3MTX4A0	C R N U			
68	3MTX4B0	C R N U			
69	3MTX4B1	C R N U			
70	3MTX4C0	C R N U			
71	3MTX4D0	C R N U			
72	3MTX5A0	C R N U			
73	3MTX5B0	C R N U			
74	3MTX5B1	C R N U			
75	3MTX6A0	C R N U			
76	3MTX6B0	C R N U			

Q #	Question	Result	Sig	Rep	PMS
77	3MTX6C0	C R N U			
78	3MTX7B0	C R N U			
79	3MTX7C0	C R N U			
80	3MTX7C1	C R N U			
81	3MTX7D0	C R N U			
82	3MTX8A0	C R N U			
83	3MTX8A1	C R N U			
84	3MTX8A2	C R N U			
85	3MTX8B0	C R N U			
86	3MTX8C0	C R N U			
87	3MTX8D0	C R N U			
88	3MTX9A0	C R N U			
89	3MTX9B0	C R N U			
90	3MTX9C0	C R N U			
91	3MTY0A0	C R N U			
92	3MTY0B0	C R N U			
93	3MTY0C0	C R N U			
94	3MTY0D0	C R N U			
95	3MTY0E0	C R N U			
96	3MTY1A0	C R N U			
97	3MTY1B0	C R N U			
98	3MTY1C0	C R N U			
99	3MTY2A0	C R N U			
100	3MTY2B0	C R N U			
101	3MTY2C0	C R N U			
102	3MTY2C1	C R N U			
103	3MTY2D0	C R N U			
104	3MTY5A0	C R N U			
105	3MTY5B0	C R N U			
106	3MTY5C0	C R N U			
107	3MTY5D0	C R N U			
108	3MTY5E0	C R N U			
109	3MTY5F0	C R N U			
110	3MTY6A0	C R N U			
111	3MTY6B0	C R N U			
112	3MTY6C0	C R N U			
113	3MTY7A0	C R N U			
114	3MTY7B0	C R N U			
115	3MTY7C0	C R N U			
116	3MTY7D0	C R N U			
117	3MTY8A0	C R N U			
118	3MTY8B0	C R N U			
119	3MTY8C0	C R N U			

Q #	Question	Result	Sig	Rep	PMS
120	3MTY9A0	C R N U			
121	3MTY9B0	C R N U			
122	3MTY9C0	C R N U			
123	3MTY9D0	C R N U			
124	3MTY9E0	C R N U			
125	3MTY9F0	C R N U			
126	3MTZ0A0	C R N U			
127	3MTZ0B0	C R N U			
128	3MTZ0C0	C R N U			
129	3MTZ0D0	C R N U			
130	3MTZ1A0	C R N U			
131	3MTZ1B0	C R N U			
132	3MTZ1C0	C R N U			
133	3MTZ1D0	C R N U			
134	3MTZ1E0	C R N U			
135	3MTZ1F0	C R N U			
136	3MTZ1G0	C R N U			
137	3MTZ1H0	C R N U			
138	3MTZ2A0	C R N U			
139	3MTZ2B0	C R N U			
140	3MTZ2C0	C R N U			
141	3MTZ2C1	C R N U			
142	3MTZ2E0	C R N U			
143	3MTZ2E1	C R N U			
144	3MTZ2F0	C R N U			
145	3MTZ2G0	C R N U			
146	3MTZ2H0	C R N U			
147	3MTZ2I0	C R N U			
148	3MTZ3A0	C R N U			