

Board of Inspections and Survey (INSURV) 2004

DD, DDG FLT II, FFG, and CG Classes

Inspection areas:

VLA

- Check condition of Nonskid and Markings - flight deck, hangar and VERTREP areas.
- Check condition of Tie-downs (Crossbar or Cloverleaf).
- Check condition and operation of deck drains.
- Verify landing area size and obstruction clearances.
- Check all applicable areas of the lighting systems:
 1. Lighting controls at HCO station - verify all power indicator lights on lighting panel are working and that intensity dials are operational.
 2. Homing Beacon verify rotation and intensity.
 3. Overhead Flood Lights - verify that lights operate in all modes and check condition of light fixtures to make sure they are aimed and pinned IAW drawings.
 4. HIFR Lights (if applicable) - verify operation and foundations.
 5. Blue obstruction lights (if applicable) - verify operation and foundations.
 6. Deck Status or Rotating Beacon lights - make sure all lights operate in each color. Specifically, for the Rotating Beacons - make sure lights work in both primary and alternate modes.
 7. Deck Edge lights - check operation and material condition of covers.
 8. Deck Surface Floodlights - check operation, cabling and brackets.
 9. Hangar wash or HCO wash floodlights (if applicable) - check operation and condition.
 10. Blue perimeter lights (applicable ships) - check operation and mounting.
 11. Approach/Line-up lights - check condition of lights and lenses. Ensure lights work in strobe mode (if applicable).
 12. Vertical drop-down bar lights - check along with approach lights. Check condition of the bar, cables, outlet plugs, receptacles, and hood over lights.
 13. Wave-off System - check intensity and surge after turning off and then back on.
 14. Hull illumination lights (if applicable) - check operation and mounting.

SGSI

- Have ship activate system and put system in stabilized lock.
- Verify pressure at hydraulic pump assembly (F-300).

- Verify there are no leaks at pump assembly and the condition of pump and gage.
- Verify unit has ground strap attached to pump unit and pump foundation.
- Verify indicator lights at electronics enclosure (F-100) and remote control panel assembly (F-200) are operational and all circuit cards are correct.
- Have ship unbolt and lower rubber bellows joint at platform assembly (F-600) and inspect condition of piping and cables to glide slope indicator assembly (F-500).
- Inspect condition of top plate of (F-600) assembly and ensure ship has been lubricating plate.
- With bellows remove and system in stabilized lock, have ship provide sighting pole and verify H-4 dimension from benchmark at 10 foot distance to F-500 assembly. Upon completion of all inspections, have ship secure system.

SAFETY NETS

- Verify type and condition of nets.
- Inspect nets in both up and down position.
- Verify hardware and securing fittings are IAW NAVSEA DWG's.
- Check net pendants to ensure they are sharing load equally.
- Verify space between nets does not exceed acceptable limits.
- Check to see if spacer bars are installed if required.
- Check to see that nets in down position do not extend above flight deck and create approach problem.
- Check any antennas or equipment in vicinity of nets to ensure they do not impact net operation.

AIRCRAFT SERVICING

- Using a multimeter, check voltages on 28-Volt Rectifier and 400 HZ HESS stations.
- On HESS stations, also verify that Available Load Monitor (ALM) trips off within 5 seconds when no demand is applied.
- On ships with hangars, verify operation of hangar doors in all modes of operation (electric/pneumatic/manual).
- Check operation of all overhead hangar hoists and hangar lighting.

- Inspect aviation workshops and storage areas for general condition.

Aviation Equipment Listing (AEL)

- Check quantities and material condition of aluminized proximity suits to include hoods, boots, gloves and liners.
- Crash and salvage tool kit, check required tools and condition of tool roll.
- Verify required amount and condition of signal wands, grounding wands and high voltage gloves.
- Verify quantity and condition of wheel chocks and tie-down chains.
- Inspect MK-1 Lifevests to include CO2 cartridges, actuators, whistles, sea dye markers, strobe light and batteries.
- Inspect material condition of cranials and flight deck jerseys.

Helo Control Station (HCS)

- Verify condition of HCS to include lighting and ventilation.
- Inspect condition of HCS windows and verify operation of window wiper system in HCS.
- Verify demonstration of helo crash alarm in HCS and from the bridge (if applicable).
- Verify demonstration of flight deck 5MC system with hand held microphone from HCS.

JP-5 System

- Ship will open and make available for the following items for inspection:

1. One JP-5 Tank (either Service or Storage System)
2. One JP-5 Filter/Separator (either Service or Transfer System)
3. Two air escape vents and one overflow valve)

Upon completion of all open and inspect checks, have ships close up all items and have ship prepare for operational checks.

- At flight deck fueling stations have ship rig NHC HIFR fueling assembly (if applicable) and rig on-deck-fueling assembly on ships without HIFR capability and accomplish the following:

1. Inspect hoses for wear and test data dates.
2. Using multimeter - verify continuity through hose assembly and nozzle.
3. Check condition of station, check for placards and label plates.
4. Check station drains, checks calibration date on fueling pressure gage.

5. Upon completion of visual checks, notify ship to procure sample bottles and phones for pumping up to flight deck. Prior to pumping up to flight deck, visit the pumproom for equipment check.

- In JP5 pump room, check the following:

1. Ventilation, lighting and type of fire fighting system (AFFF/HALON).
2. Check to see if space has emergency eyewash station and EEBD.
3. Check communications in space (J-Dial / Sound power phones).
4. Have ships isolate and verify pressure of the service, transfer and motor driven stripping pumps. Have ship demonstrate hand stripping pumps.
5. Inspect funnels, drip pans and drains under pumps and filters. Also, check bilge condition in space.
6. Ensure that AFOSS is accurate and that all gages and tank level indicators are within calibration. Upon completion of pump room inspections, notify ship force to align system to pump up to flight deck.

- Conduct JP5 system pressure checks as follows:

1. Upon notification from crew that system is aligned, have ship pump up JP-5 service system to flight deck.
2. Verify system pressure at flight deck by closing downcomer valve and have ship adjust pressure to show 55 PSI at flight deck fuel pressure gage.
3. Upon completion of flush and pressure test, have ship pull two (2) fuel samples from cognizant nozzle for lab analysis.
4. After samples have been taken, have ship demonstrate emergency stop switch at flight deck fueling station to stop pump.

- Inspect fuel lab for the following:

1. Lighting and ventilation.
2. Eyewash station and deep sink.
3. Portable fire extinguishers.
4. Placards and label plates.
5. Verify type of fuel detector ship has whether combined (CCFD) or separate sediment and water detectors and verify calibration dates.
6. Verify that ship has B-2 FSII kit and Flash Point Tester (if applicable).
7. Have ships analyze samples taken for sediment, water and FSII.

- On ships required to have defuel capabilities, inspect defuel pumps or defuel carts. Ensure that ships have hoses and nozzles for defuel pumps.

RAST

- Have ships force remove forward RAST track plates (tensioner sheave) and aft track plates (deflector and turnaround sheave).

- Have ships force remove track plates over down sheaves.

- Have ships force remove RSD covers – inspect condition of equipment.

- Inspect the RAST Machinery Room and inspect the following:

1. Check WHPU area for hydraulic leaks; gage calibration and general condition.
2. Check Tailguide Winch for leaks and corrosion.
3. Check MSA for corrosion, load cells, wiring, gasket and general condition.
4. Check port and stbd. MSA end supports for corrosion and movement of sleeve.
5. Check Traverse cables for corrosion, wear, damage, and broken wires.
6. Check Rope Accumulator for leaks proper nitrogen charge and gage calibration.
7. Check RA cable for corrosion, wear, damage, and broken wires.
8. General condition of space.

- At the Hydraulic Test Panel inspect the following:

1. Check RA boost pressure.
2. Check Traverse/TGW boost pressure.
3. Check Traverse pressure. (winch drums brakes held)
4. Check Tailguide Winch System pressure.
5. Check Traverse Pump leak rate.
6. Check Traverse Motor leak rate.
7. Check Tailguide Winch Pump leak rate.
8. Check Tailguide Winch Motor leak rate.
9. Check Nitrogen pre-charge in SERVO accumulator.

- Inspect the following areas on the flight deck:

1. In areas of removed track plates check for corrosion and condition of support blocks, post and trough components.
2. Check length of trough for corrosion and debris.
3. Check track plates for corrosion, bolts, and uniformity.

- Inspect the RSDs as follows:

1. While covers are removed check internal area for leaks, debris and general condition.
2. Check beam and pin condition.
3. Check beam control cables and chains tension.
4. Have covers installed and check for fit, security and condition.

- Inspect the LSO Control Station as follows:

1. Check condition of console.
2. Check panel lights.
3. Check operation of Low Level Fluid Alarm if installed.
4. Check operation of window wipers.
5. Two sets of communication foot switches installed.

- Conduct RAST system operational checks as follows:

1. Have ships force install the RA Cal Kit and check minimum and maximum tension.
2. Check tension of ECR cable reels.
3. Traverse port and stbd RSDs full length of track. Time slow and fast speeds.
4. Check TGW operation port and stbd.
5. Check for proper operation of RSD beams.
6. Check for three beam cycles with power secured.
7. Check LSO Console for proper indicator light operation.