



580th Aircraft Sustainment Group

HH-60 Corrosion Issues



U.S. AIR FORCE

Capt Michael Simonich

25 March 09



Overview



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- **Corrosion Team**
- **Corrosion Plan**
- **Technical Assistance Requests**
- **Depot Level Maintenance**
- **HH-60 Issues**
- **Summary**



HH-60 Corrosion Team



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- **Capt Mike Simonich, Engineer**
- **Steve Lamb, Engineer (ASIP Focal Point)**
- **TSgt James Hardy, Equipment Specialist**
- **Steve Fairfield, Program Manager**
- **Don Davis, Contractor (SAIC)**





SOF/CSAR Corrosion Plan Goals



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- **Forming dedicated corrosion team for each SOF platform**
- **Investigate and implement new/current technology**
- **Establish program to map aircraft corrosion problem areas**
- **Documentation**
 - SOF/CSAR corrosion plan and charter
 - Ensure TO's are up to date/current
 - Maintain configuration control
- **Back-to-Basics philosophy**
 - Basic MX practices
 - Attention to detail



Technical Assistance Requests



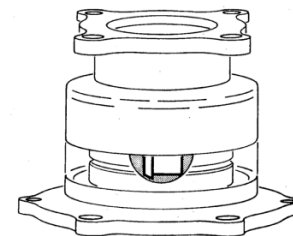
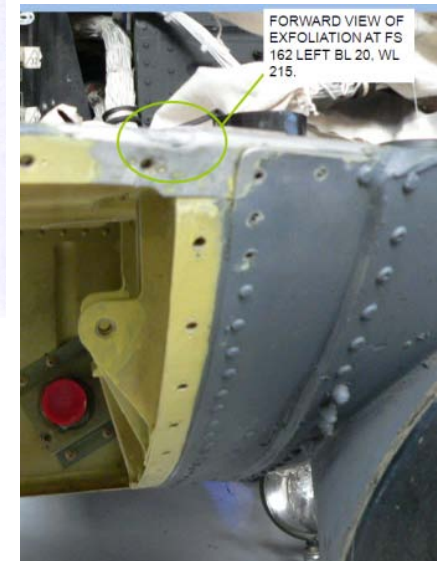
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- Utilize -107 process for engineering technical assistance requests

- For tracking/routing AIRCAT preferred system
- May be processed via email

- **2009 Examples**

- Cargo Hook Fitting Assy
- 185 gal aux fuel tanks
- Nose cowling latch catch
- Tee Extrusion



VALVE ALIGNMENT INDICATOR





Depot Level Maintenance



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- **Updated JDLM work package—review yearly**
- **Reviewing depot schedule**
 - No longer use JACE
 - Movement to fixed depot schedule
- **Recently high number of corrosion discrepancies noted**
- **Reviewing RCM work cards**
- **2008 average depot costs reduced from previous years...**
- **But, early figures this year suggest costs will rise in 2009**
- **Flow days due to corrosion approx 10% or 12 days per acft**



Depot Findings

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CORRODED ANTENNA MOUNT (STRUCTURAL SUPPORT) AND LOWER PLATING REMOVED TO ACCESS AND TREAT CORROSION ON AIRFRAME.





Wash Procedures



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- **While Washing is an Effective Corrosion Prevention Method, the SWA Environment Presents a Unique Challenge**
- **Reviewing HH-60 Aircraft Wash Procedures**
- **TO 1-1-691 update...“clean/fresh potable water”**
- **Operating location vs Unit location**
 - Risks of washing temporarily deployed aircraft outweigh benefits
 - Permanently-Stationed aircraft should be washed during scheduled intervals
- **Recently issued CENTCOM AOR wash water quality waiver**



Reconstitution Checklist



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- **Developing corrosion prevention measures for helicopters returning from SWA**
- **Consolidated checklists**
 - Patrick AFB (920 RQW) Reconstitution Checklist
 - Army's (TB 1-1520-237-30-1) aircraft desert operations special inspection and cleaning requirements
- **Assisted by Patrick AFB QA personnel**
- **“Draft” copy complete**
- **Discuss with HQ ACC on whether to use Army program or continue development of separate USAF program**



Corrosion Under INU Mount



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- **No field level procedures to remove corrosion accumulating beneath INU mount area**
- **CCAD investigation of adding paint stripes for alignment determined not feasible**
- **New GPS w/ INU being evaluated as replacement**
 - No need for alignment upon removal for mx
 - Should enable field level access
- **Install corrosion sensors under INU area at depot**
 - Data collected will drive inspection schedules or repair to prevent major corrosion issues



Corrosion Prevention



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- **Consistency in cross-org CPC type/application for same areas on aircraft**
- **Reviewing tech data for current mil specs and products**
- **Request units report success/failure with CPCs (especially those not found in current tech data)**
 - SPO will consider products/process wrt cost, man-hours, etc.
 - In coord with SPO, submit AFTO 22 or 252
- **Recommend:**
 - Develop a USAF CPC working group—goal to standardize CPC use at all USAF installations/locations
 - Send AMCOM Corrosion Team to units for training



Summary



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- **Corrosion Team**
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- **Helo Week / CPAB**

573rd ACSS, Robins AFB

Helicopter Week 2009

Agenda will consist of:

- FY 2009 Rotary Wing Program Management Review (PMR)
- Materiel Safety Task Group (MSTG)
- Materiel Improvement Program (MIP)
- Product Improvement Working Group (PIWG)
- Rotary Wing System Safety Group (SSG)
- Rotary Wing Corrosion Prevention Advisory Board (CPAB)

▪Where: Atlanta, GA

▪When: 1st Week of June

▪Up to 30 Vendors in attendance (If interested in hosting a booth please contact Capt Chris Nunez (478) 327-6923/christopher.nunez@robins.af.mil

▪<http://cwp.marriott.com/atldm/helicopterweek>



Questions?



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