



NSG



Long-Term Support of Ops Recorder dumps

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AFSCN Control Center Move

- **AFSCN control is moving from OAS to Shriever**
- **Contacted NASA to secure budget to transition to Shriever**
 - AF costs have continued to escalate, no formal estimate provided to NASA
 - Also, AF would begin to charge NASA for per-pass costs plus other recurring costs.
 - NASA is not planning to move to Shriever
- **GOES/POES and TDRS have indicated the removal of their requirements.**
- **STS has also stated that they would not expend funds to move.**
- **RTS SUPPORT TO SHUTTLE IS PLANNED TO STOP OCTOBER 1, 2002**



Ops Recorder dumps

- **Orbiter upgrades will improve ops recorder management**
 - SSR will allow for pre-building dump “queues” without gaps.
 - Data rates for dump will be higher.
 - Should allow for greater use of TDRSS to manage ops recorder.
 - Schedule of deployment in fleet is TBS.
- **Will need to use ground sites when K-Band is not available or stowed.**
- **Evaluate increased use of NASA and commercial ground stations.**
- **DFRC, WPS, and MIL may need increased comm line data rates to maximize dump rate.**
- **Universal Space Network has contracted sites that could provide coverage**
 - Data delays (2hrs), NRC and recurring cost.



Commercial Sites

- **Universal Space Network (a.k.a.: prioranet)**
- **Not all sites are 24hrs. Not all sites have agreements with USN yet.**
- **Data is delivered to the Network Management Center (Pennsylvania) where it is provided to the NISN lonet.**
- **Data delay is expected to be 2 hours from time of dump complete. May be able to buy BW on demand to decrease delay.**
- **Could explore getting data via TCP or FTP across network. Doesn't necessarily speed process.**
- **There are HW costs to stations and new documentation/support procedures. Including scheduling/reporting process.**
- **Potential primary sites would be Hawaii, Santiago, Overberg (South Africa), Dongara (West Australia)**



NASA Sites

- Availability, Cost, and data rates from sites needs to be weighed.
- DFRC, WPS, MIL
- It may be more cost effective to increase data rates from these sites and take fewer ground passes.