NPP/NPOESS Update

Presented to the MODIS Science Team
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Program Status

• Total cost over-runs exceed 15% with indications it will grow
  – Growth to 25% would trigger “Nunn-McCurdy” Act certification provisions
    • Essential to National Security
    • No alternatives that are more cost effective
    • OSD independent cost estimate
    • Adequate management structure

• Program content remains intact

• Schedule will likely slip
  – Options still under discussion

• VIIRS capabilities remain unchanged
Independent Program Assessment (IPA)

• 2nd major independent review in past year
• Led by Brig Gen (ret) Jack R Wormington
• Membership included:
  – Mr Ken Anderson (NASA, Former MODIS Instrument Manager)
  – Dr. Robert Lucke (NRL, hyperspectral sensors)
  – Dr Paul Menzel (NOAA, MODIS ST, former VOAT Chair)
• Site visit & extensive discussions with SBRS VIIRS team
• Strongly supported VIIRS
  – Recommended additional schedule, review of testing to assure sufficiency
VIIRS EDSR

- In depth technical and programmatic review of VIIRS program
- Led by IPO & NGST System Engineering with extensive participation by NASA NPP senior management
- Confirmed & elaborated on technical & process concerns at SBRS
- Proposed solutions
Program Structure

- Program remains under “SSPR” concept (IPO & NGST share responsibility)
- Program reporting to sponsoring agencies streamlined
  - Direct to the “EXCOM” consisting of the NASA & NOAA administrator & AF Under Secretary
- NPOESS IPO to increase capabilities for technical & financial oversight
Program Management

- Program Executive Officer organization being formed to provide independent oversight
  - One level above NPOESS SPD
  - Brig Gen (S) Sue Mashiko will be PEO
- Col(S) Dan Stockton will be NPOESS SPD
- Management changes at NGST
- Internal organization of IPO being strengthened
Orbit & Program Schedule

• NPP will be moved to the afternoon orbit (1:30 PM ascending node)
• NPP launch will slip dependent on VIIRS schedule
  – Allows more time to incorporate lessons learned from VIIRS EDU into VIIRS FU-1
Summary

• Schedule & cost problems have led to a reorganization of the NPOESS IPO & changes to the program schedule & management structure

• Program content has not been changed
  – Close user coordination at all times

• Positive attention has been focused on assuring that VIIRS meets its requirements