USMCC Backup Procedures

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USMCC Backup Procedures

• Backup options (in priority order)
  – Use in-house redundancy of NSOF USMCC in Suitland, MD
  – Operate NSOF USMCC remotely from the NOAA Center for Weather and Climate Prediction (NCWCP) in College Park, MD
  – Operate Offsite USMCC at Wallops, VA remotely from NCWCP
  – Operate Offsite USMCC locally from Wallops

• COSPAS-SARSAT partners provide backup during transitions and in case of system failure
  – CMCC (Canada) for national (RCC/SPOC) responsibilities
  – AUMCC (Australia) for international (MCC) responsibilities
USMCC Backup – In House

• Use in-house redundancy
  – Failover to on-site backup system has minimal delay
  – The backup system is configured the same as the operational system
  – In case of a hardware failure, the operational processes can quickly be enabled on the backup system
  – Should be transparent to RCCs, SPOCs, and MCCs
    • Phone numbers stay the same
    • Communication addresses stay the same
    • Message sequence numbers stay the same

Email is not implemented into the USMCC (manual, last resort)
Message Sequencing is by Destination (not by Comm Type)
Data delays less than ½ hour do not trigger backups
USMCC Backup – Remotely Operate NSOF

• Leave NSOF, with computer systems still operating at NSOF
  – MCC Controllers move to NCWCP and operate NSOF MCC remotely
    • May have brief delay in contacting MCC Controller while in transit
    • **Phone numbers may change** (some failures at NSOF may not allow forwarding)
    • RCCs/SPOCs will receive a message providing the new phone numbers (if applicable)
    • Communication addresses stay the same
    • Message sequence numbers stay the same
USMCC Backup – Remotely Operate Wallops

- MCC Controllers bring up the Offsite MCC at Wallops, VA and operate it remotely from NCWCP
  - Phone numbers stay the same as above (NCWCP numbers)
  - Communication addresses will change
  - Message sequence numbers will change
  - Alert sites may reform
  - Alert site numbers will change
  - RGDB and IHDB are likely **not available** (RGDB, IHDB only at NSOF)
  - RCCs/SPOCs will receive a message with the above information

– Operating the Offsite MCC remotely may be done as a transitional step while USMCC staff deploys to Wallops
USMCC Backup - Wallops

• Operate Offsite USMCC locally from Wallops
  – RCCs/SPOCs will receive a message about the changes
    • USMCC contact numbers change to Wallops phone numbers
    • Communication addresses will change
    • Message sequence numbers will change
  • Alert sites may reform
  • Alert site numbers will change
    • RGDB and IHDB are likely not available (RGDB, IHDB only at NSOF)
USMCC Backup – AUMCC & CMCC

• When USMCC at NSOF and Wallops are not available, C/S partners take over USMCC responsibilities:
  – CMCC will assume USMCC national responsibilities
    • Alert messages will be sent in SIT 185 format to RCCs and SPOCs
    • RGDB data will not be included in alert messages
    • RGDB and IHDB may not be available
    • Message sequence numbers will change
    • RCCs/SPOCs will receive up to 4 missed pass messages per location
    • RCCs/SPOCs will not receive data from US LUTs (including MEOLUTs)
    • CMCC supports US special programs with limitations
  – AUMCC will assume international (Nodal) responsibilities
    • AUMCC distributes data to MCCs in place of the USMCC
  – CMCC still not yet LGM capable
Questions?