USMCC Backup Procedures

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Beth Creamer

Chief USMCC

ERT, Inc.

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
    - CMCC (Canada) for national (RCC/SPOC) responsibilities
    - AUMCC (Australia) for international (MCC) responsibilities

- 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 test 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

- Leave NSOF, with computer systems still operating at NSOF
  - MCC Controllers move to NCWCP and operate NSOF MCC remotely
    - May be 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

- 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 likely not be available (RGDB, IHDB only at NSOF)
  - RCCs/SPOCs will receive a message with the above information
  - Operating the Offsite MCC remotely may be used as a transition while USMCC staff deploys to Wallops

- Operate Offsite USMCC locally from Wallops
  - USMCC contact numbers change to Wallops phone numbers
  - RCCs/SPOCs will receive a message about the changes

- 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 SPOC
    - RGDB data will not be included in alert messages
    - RGDB and IHDB likely will 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 and AUMCC not yet LGM capable (foreign MEOLUT data only sent to RCCs and SPOCs manually by USMCC)

Backup Exercise Plans

- We exercise each of the backup options annually
  - Exercise in January 2016 supported refresh of primary USMCC at NSOF
  - We plan our exercises to be as realistic as possible without degrading SARSAT capability

Conclusion

Questions?