USMCC Backup Procedures

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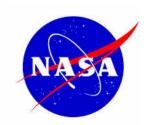Chief USMCC

ERT, Inc.

USMCC Backup Procedures

- Backup options
  - 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 or from NSOF
  - 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 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

- Operate NSOF USMCC remotely
  - 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

- Operate Offsite USMCC at Wallops, VA remotely from NCWCP or NSOF
  - Operating the Offsite MCC remotely may be used as a transition while USMCC staff deploys to Wallops
    - Phone numbers stay the same if remoting from NSOF
    - Phone numbers change when remoting from NCWCP
    - 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)
      - If IHDB is available, records located by beacon ID
    - RCCs/SPOCs will receive a message with the above information

- Operate Offsite USMCC locally from Wallops
  - USMCC contact numbers change to Wallops phone numbers
  - Same as previous slide

- **COSPAS-SARSAT partners provide backup**
  - CMCC can 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 can 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)

Conclusion

Questions?