USMCC Backup Procedures

SAR Controllers Workshop 2018
March 2018
Beth Creamer
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
USMCC Backup Details (2 of 5)

• 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
USMCC Backup Details (3 of 5)

• 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
USMCC Backup Details (4 of 5)

• Operate Offsite USMCC locally from Wallops
  – USMCC contact numbers change to Wallops phone numbers
  – Same as previous slide
USMCC Backup Details (5 of 5)

- 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?