B. Schroeder October 2020

INCIDENT SUMMARY: MULLEN FIRE 2020

INCIDENT NAME: MULLEN FIRE

Missions: Situational Awareness and hotspot identification during the swing shift with one night IR mapping mission

VENDOR: BRIDGER AEROSPACE, LATITUDE VFR-90

Vendor Staff: Wes Irr, Alex Logan, John, Brent Thornhill

Federal Module:

NAME	POSITION	DATES	EMAIL
Shane Rolston	UASM	10/1-10/4	shane.ralston@usda.gov
Ed Yue	UASM(t)	10/1-10/3	edmond.yue@usda.gov
Joe Ceremuga	UASM(t)	10/1-10/5	joseph.ceremuga@usda.gov
Britta Schroeder	UASD	10/1 -10/13	britta_schroeder@nps.gov
Loren Russell	UASD(t)	10/1-10/5	loren.russell@usda.gov
Dan Matthews	UASM	10/4- 10/13	daniel.m.matthews@usda.gov
Matt Lewis	UASM(t)	10/5- 10/13	mlewis@blm.gov
Henry Gilliland	UASM(t)	10/7-10/13	hgillila@blm.gov

Teams: Rocky Mountain Blue Team upon arrival; Southern Blue Team transitioned on 10/6

DEVELOPMENTS

- Workflows created on assignment
  - CTM1 File creation:
    - Developed workflow to generate native file for GCS, circumventing necessity for vendor to have daily internet to upload and convert the GCS map
  - Developed UASD Pro Project Template with Map Series layout:
    - Created an ArcPro Project Template for generating new projects that immediately pull in NIFC data once signed into NIFC AGOL;
    - Created a Data Driven Pages (Map Series) Layout template in the project to generate products that are to scale, spatially explicit, and standardized as a replacement to the Powerpoint drafting, which eats up valuable time
  - Designed and published AGOL UAS WFS with attachments:
    - Created schema for ArcGIS Online Web Feature Service containing points, lines and polygons similar to NIFC Event database, but which allows attachments (photos)
  - Created vendor specific checklist

- Includes steps from mob to demob, and daily tasks split by “internet-dependent” and “field”

LESSONS LEARNED

- UASD Toolbox/Data sharing
  - **Most UASM and UASD on Mullen Fire were unaware of BLM UAS Sharepoint Site https://uas.nifc.gov/uasd-toolbox**
    - Duplicate information shared in IFUAS UASD Site created by Rich Thurau caused confusion
    - Missing quite a bit of what was on the Google Site
    - Solution:
      - Share this new site with all UASM and UASD through an email; create new one-pagers for sharing with 1) Air Ops/Air Attack, 2) Planning including vendor “cards” like old Google Site had
  - Need updated sensor specs for vendors
    - Current specs based on Wendover 2019, do not include FLIR Duo Pro R 640 25mm, and are buried at the bottom of the PDFs
    - TIFF data exported from Map view in ArcPro no longer allows control over DPI output, requiring change to exporting data as PNG
    - Solution:
      - Take PDF write up’s from Wendover or subsequent Incidents and create an Excel sheet with a tab for each vendor that lists all the specs necessary to generate products
  - Non-networked BLM laptops missing Microsoft Suite
    - Solution:
      - Log-in to Microsoft through web browser, with PIV if using agency email or with Firenet, to use Powerpoint online
      - See the Firenet troubleshooting page and multiple Chrome browser log-in video to have multiple account log-in on Chrome

- AGOL
  - NIFC AGOL - GISS permissions
    - UASD’s and UASDt’s who are not GISS still need access to the NIFC AGOL Hosted GISS Edits Feature Service in order to 1) bring in the WFS for viewing or 2) Create a local checkout/disconnected copy for offline GCS map creation
    - Solution:
      - Individual UASD work the same process as GISS to gain AGOL permissions
  - NIFC AGOL - UASD Group creation
    - There is no UASD AGOL group that allows us to share AGOL WFS templates, workflows, etc. Currently, some of the UASD are in the NIFC AGOL BLM UAS – Working Group, but not everyone, and Gil Dustin is the owner

        - Solution:
            - Recommend creating an IFUAS Group within NIFC AGOL, which includes all UASD and UASDt, has multiple interagency owners, is not solely named “BLM”, and houses items like WFS and Workflows like NIFC GISS groups
    - NIFC AGOL UAS Web Feature Service
        - Create template for UAS WFS similar to NIFC Event Geodatabase, but allows attachments
        - Solution:
            - GISS/NWCG Coordination
                - Discuss workflow with NWCG GISS/UASD coordinators; submit attachment solution suggestion for NIFC Event GDB through GISS Survey