



**Begin Time:** 1300  
**End Time:** 1715

<b>FMC Members:</b>	<b>Present</b>	<b>Absent</b>
Angie Simpson (BLM), Chair	X	
Mike Van Hemelryck (NPS), Vice-Chair		X
Frankie Romero (USFS)	X	
Mark Jackson (BIA)	X	
Tate Fischer (FWS)		X
Andy James (NASF)		X
<b>Advisors:</b>		
Jason Fallon (OWF)	X	
Deb Fleming (NWCG) via phone	X	
Annie Benoit (BLM) liaison		X
Jessica Wilson (BIA)	X	
<b>Guests:</b>		
Jesse Bender (BLM)	X	
Gil Dustin (BLM)	X	
Dave Mueller (BLM)	X	
Tim Yurkiewicz (NAFRI) via phone	X	

**DECISION LOG**

**Topic:** Review August 21, 2019 Decision Log

**Presenter:** Angie Simpson

**Discussion/Considerations:** Review draft minutes from FMC meeting on 8/21/2019.

**Decision:** Approved meeting minutes from 8/21/2019 as presented.

**Topic:** UAS Operations

**Presenter:** Gil Dustin

**Discussion/Considerations:** Gil displayed a PowerPoint presentation. He stated that in August, 2018, an aerial ignition (PSD) payload was developed for the DJI M600 multirotor UAS. After several operational test flights in the northwest and subsequent OAS approval of the payload, the interagency UAS community decided to invest in the technology and expand operational testing during the 2019 fire season. Interim approval for UAS aerial ignition testing was issued by NIAC in January of 2019.

In March of 2019, a UAS aerial ignition test course was developed and presented to 16 DOI (BLM, NPS, FWS) students in Grand Junction, CO. The student base consisted of interagency UAS personnel who possessed the NWCG UAS Pilot (UASP) qualification.

UAS Aerial Ignition Operations were conducted on 13 fires/prescribed fires in 8 states during the 2019 season. 264 flights for 83 hours were conducted. Feedback from incident/project managers was positive and drove multiple lessons learned and a path forward.

### **Lessons Learned**

- The M600 UAS was equipped with the Ignis 1 PSD system and a Zenmuse XT2 thermal camera. The thermal camera allowed for line scouting and burning at night and in smoky conditions. The combination of recon and burning capability was effective during fireline operations.

- High winds and tall timber hamper UAS operations.

- Learning to interpret thermal video is an acquired/time consuming skill.

- The Ignis 1 system experienced mechanical (servo) malfunctions during period of heavy use. Feedback was provided to the manufacturer.

- The system performed well to conduct small scale ridge treatment, interior pocket cleanup, and increase depth.

- Approximately 500 acres can be treated/system/day given receptive fuels.

### **Challenges**

- UAS is a collateral duty for most employees.

- Limited staff/time to develop UAS aerial ignition program

### **Planned Path Forward**

- Collaborate with agency/interagency partners and stakeholders to develop the program

- Ignis PSD manufacturer has updated the system based on feedback from the field. Ignis 2 has been approved and is in production.

- BLM, NPS, and FWS have ordered 20 Ignis 2 systems.

- An agency/NWCG UAS aerial ignition position is in development.

- Interagency operational policy is in development.

- Two UAS PSD workshops are planned for fy20 (Tallahassee and Grand Junction).

**Decision:** Information only.

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### **Topic: SmoC**

**Presenter:** Dave Mueller

**Discussion/Considerations:** Dave gave an update on SmoCs 2020 Tasks:

Smoke Management Field Guide – Develop a field guide companion document to the NWCG 420-2 Smoke Management Guide.

RT-300 Smoke and Road Safety – work with Mike Black, develop a smoke management presentation for RT300/Burn Boss Refreshers.

Smoke Video and S-130 – develop training video and materials for smoke management in S-130.

Smoke and air quality statements for SOF, MEDL IDPs – working with the risk management committee provide smoke and air quality statements for SOF, MEDL IDPs.

CALOSHA requirements. Keep informed and updated on the new CALOSHA air quality and mask requirements.

S-190 Develop and propose inclusion of smoke behavior information to S-190 revision and eventually S-290, 390, 490?

Smoke weather planning tool – Manage agreement with PNWRS to develop a new/enhanced smoke weather planning tool. Using historical wx/smoke conditions provide managers with the capability to examine probable smoke impacts under selected fire behavior conditions.

**Decision:** Frankie asked about the RX-410 Revision update, Deb stated that they are waiting for IPDs. Angie will recruit a Burn Boss to help on the field guide.

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**Topic: FMC Winter Meeting**

**Presenter:** Tim Yurkiewicz

**Discussion/Considerations:** Angie asked if the FMC would be interested in attending NAFRI January 13-18, 2020 to evaluate the courses RX510 and M580 and meet. Mark suggested sitting in on a full day of each course instead of half day to get the full effect. Deb said that RX510 and M580 will officially be under FMC / NWCG with a mission objective. Tim will notify Angie when chair of 580 is selected. Tim also said the Committees would like to sit down and discuss options of 510 and 580 and how to utilize NAFRI. Deb said the master charter for all subgroups will be under NWCG with mission and objective statements that are broad. NAFRI will develop the SOP that provides the details for the steering committees to follow. Chairs can arrange time with FMC for discussions.

**Decision:** Deb will work on clear definitions along with the rolls of NAFRI and parent committees. Angie will send out the draft agenda and meet with Tim.

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**Topic: PMS 200 / FMC OMB Form Reviews**

**Presenter:** Jesse Bender

**Discussion/Considerations:** The NWCG PMS 200 website is intended to house all of the typing standards in one place. Right now they are mostly contained in the Wildland Fire Incident Management Field Guide in the PMS 200. Frankie stated that the PMS 200 could have utility for everything certification wise but the Module Community is best served with PMS 430 that they can revisit every year. Jesse said they are looking for that overarching steward and contemplating if NIMSIC is the right group since they interact with FEMA and would know of any recent changes/coordination. The Committees would still have full control over the standards. Instantaneous changes would occur when it's approved. Frankie stated that there are too many subject matter entities to create a single authoritative source. Jesse said that they are hoping to go live with this next month.

Jesse went over the OMB Forms. She stated that it is mandated by OMB that any form being filled out by NON federal entities has to go to them for approval with a disclaimer on the forms giving them a reason of why they are filling it out. It becomes important in anything that is legally binding, mainly finance forms that do not have an official OMB form number. FMC has the smallest amount of forms.

**Decision:** Angie will reach out to the rest of FMC to get a decision regarding PMS 200 and report back to Jesse. Jesse will review the OMB forms and report back to FMC.

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**Topic: SIT Report and RX acres**

**Presenter:** Angie

**Discussion/Considerations:** Angie reviewed the latest SIT Report and said the annual summaries are gone but weekly acres still exist, also the disclaimer is missing. Dan with the IMSR task group agreed to add to the latest agenda and discuss at NMAC next week.

**Decision:** Angie will follow up with Dan. Frankie will talk to IMSR group if needed.

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**Topic: Round Robin**

**Presenter:** All present committee members

#### ACTION ITEMS OR ASSIGNMENTS LOG

**Name:** Angie

**Assignment:** Burn boss from the field to help with the field guide.

**Name:** Deb

**Assignment:** Define rolls for NAFRI and parent committees.

**Name:** Angie

**Assignment:** Send out draft agendas for the FMC Winter Meeting and meet with Tim.

**Name:** Frankie / Angie

**Assignment:** Meet with IMSR group regarding SIT Report.

#### DATE, TIME AND LOCATION OF NEXT MEETING

**Date:**

11/13/2019

Time: 1300-1700

Location: NPS Conference Room