2020 IR OPS SUMMARY

PROVIDING SAFE, YEAR ROUND, ON DEMAND, IR RECONNAISSANCE
INFRARED OPERATIONS

June to November

THE GOLD STANDARD BY WHICH ALL OTHERS ARE MEASURED
FIRST FIRE FLOWN:

Sawtooth Fire  1 JUN
LAST FIRE FLOWN:

Cameron Peak Fire 20 NOV
2020 IR TRIVIA

- States Flown in 1 Night: 4
- Most Fires Flown in 1 Night - 44z & 49z : 20 orders
- Most Fires Flown in 1 Night 1 A/C 49z : 20 orders
- Most Percent Flown by 49z in 1 Night : 45% 09/05
- Longest Night Mission: 8.0 hours; 08/22 64% UTF
- Most NIROPs Platforms in Operation Single Night: 9
- States Flown During This Fire Season:
  - AZ, CA, CO, ID, MT, NM, OR, UT, WA, WY, NV,
- 144z and 149z Flight Hours – 793 IR hrs to date
Aircraft 44z Maintenance

- 44z GTN 750 installed 6hr to SGU close 05/28/2019
- 44z out of service - unsafe avionics 5/28/2019 – current

44Z is a 2001 Cessna Citation that is unavailable for missions due to chronic avionics issues and requires immediate replacement.

Investment required to return 44Z back to service for the remaining aircraft lifecycle is estimated at $2.28M

- avionics replacement and installation
- engine replacement within the next 500 hours
Aircraft 49z Maintenance

- **HUIP, High Use Inspection Plan:**
  - Routine due every 200 hours, typical completion 1 day
  - Phase due every 400 hours, typical completion 3-5 days
- 20 hours before 20 hours after

- 49z right fuel gauge inop deferred 06/11 – present
- 49z stall heat inop 06/29-06/30
- 49z phase maintenance 07/02 (completed one day)
- 49z phase maintenance 08/13-08/16
- 49z left wing fuel leak 08/31
- 49z stall heat inop 09/23 (found wire arcing/short)
- 49z out of service right engine trend Yellow 10/08
- 49z out of service overfly left engine 3600+198 10/18-11/04
- 49z return to service left engine loaner installed & phase maintenance 11/05 (used 27.1 hours)
- 49z phoenix sensor removed for winter maintenance 12/01
Aircraft Updates

Aging Aircraft
- increased maintenance items

44Z Avionics faulty upgrade
- Beechcraft King Air 250 to replace 44z

New Aircraft?
- Business case submitted FY-20
- Two Beechcraft King Air 250 Replacements Approved

2021 aircraft rates:
- 44Z FY2019 $1620 to FY2020 $1620
- 49Z FY2020 $1100 to FY2021 $1100
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<th>Year</th>
<th>Total Assigned</th>
<th>UTF</th>
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<td>2020</td>
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<td>43</td>
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INFRARED PILOTS 2020

Dan Johnson Supervisor
08/2006
44Z & 49Z

Carl Helquist
05/2019
49Z

VACANT

Don Boyce
R4 STANDS PILOT
05/2007
44Z & 49Z

VACANT

VACANT

ORGANIZATION CHART
TYPICAL FLIGHT SCHEDULE BUT WITH ONLY 3 PILOTS
What did we learn...

- IR reconnaissance demand exceeded capacity
- Aging aircraft requiring more MX
  - RTB OGD essential 49z to remain in service
  - RTB OGD also eliminated 6/36 duty limits
- Sensor upgrades (Kaz/Mike will brief improvements)
Thanks to the

- IR Coordinators
- IR Technicians
- IRINS
- GTAC & Aircraft 3
- Contract Aircraft & CO / COR
- NICC
- WO
- MAINTENANCE STAFF
- SUPPORT STAFF
What’s Next …

- 49z winter maintenance 12/02 – ??
  - 6th Engine rebuild x 2 estimate $600k / 3600hr
  - Exterior paint $50k

- Anticipate more maintenance requirements for aging aircraft
  - 49z manufactured 1985 18,000 plus hours

- Aircraft replacement for 44z & 49z - 2021

- Address pilot shortage
Any Questions?