2021 IR OPS SUMMARY

PROVIDING SAFE, YEAR ROUND, ON DEMAND, IR RECONNAISSANCE
INFRARED OPERATIONS
May to October 2021
N149Z 2021 Summary

First Mission Flown: May 26
Last Mission Flown: September 12
N149Z Unavailable after September 12

Final NIROPS Mission: October 30
2021 IR STATS

- Total Flight Time: 440 hours
- Total Nights Flown: 81
- Total fire scans completed: 381
- Total Nights cancelled due to weather: 12
- Total Nights cancelled due to mechanical: 68
  - (for the period form May 26 to October 30)
Solving aircraft deficiencies was a central theme to 49Z’s 2021 season.

Season Kick-Off:

- Air Conditioning
  - One night of unavailability while the initial problem was identified.
  - 9 nights continued operation without A/C under MEL with extensive troubleshooting during multiple days before each flight.
Significant Maintenance Events

Half Time Show:

- **Engine Oil Filter Initial Discovery**
  - The problem was discovered during the first routine inspection after engine overhaul. The left engine oil filter was found to have been installed backwards at the contract overhaul facility.
  - One night unavailability while issue was evaluated.

- **Engine Oil Filter Stud Replacement**
  - Studs that secure the left engine oil filter were damaged during the incorrect oil filter installation.
  - Two weeks unavailability during the last two weeks of July while left engine was removed for repair.
Significant Maintenance Events

3rd Quarter Action:

- Gear Door Bushing
  - During post flight inspection the left gear door actuator was found unattached and trailing the gear door.
  - One night unavailability waiting on replacement bushing
Significant Maintenance Events

Final Minutes of the Game:

- Left Engine ITT Excursion
  - 9/10 mission cancelled shortly after departure when left engine ITT showed an un-commanded increase.
Season Ending Injury:

- **Right Engine Torque Anomaly**
  - While returning from the 9/12 mission, the right engine torque dropped on the right engine with no warning or apparent cause.
  - N149Z taken out of service until safe continued flight could be assured.
  - Subsequent troubleshooting continued through October and into November, effectively ending availability for the season.
N149Z Maintenance Key Points

- N149z Manufactured 1985 18,000 hours on airframe
- N149z original engines rebuilt for 6th time 2021
- N149z in service 16 years past planned 20 year replace cycle

- Increased maintenance requirements trend has been noted in past years. This was not a surprise.
- Safety margin eroding as we continued to demand high use from an old aircraft.
- Maintenance workload unduly increased as one aircraft demanded increased attention.
Region 4 Aircraft Maintenance Organization deserves credit and thanks for putting in long hours. They stuck with it through difficult problems that resisted all attempts toward resolution.

Thank you:

Jeff Watts
Ivan Elmy
Levi Bryan
Kevin Bailey

Without your efforts N149Z would have had even more down time. Thank you for keeping the pilots and technicians aboard 49Z safe.
Aircraft Updates

New King Air 260GT aircraft scheduled for 2022 delivery

Sensor capabilities on new aircraft:

New Phoenix
Overwatch TK9
AMS
New Aircraft Updates
Thanks to for a successful season….

- IR Technicians
- IRINS
- GTAC & Aircraft 3
- NICC
- WO
- MAINTENANCE STAFF
- SUPPORT STAFF
What’s Next …

- Hire additional pilots to cover 2 aircraft
- Integrate new avionics and sensor capabilities into our operation
Any Questions?
2001 CITATION 550 CESSNA AIRCRAFT

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<thead>
<tr>
<th>Item Information</th>
<th>Item Photos</th>
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**Note:** When "Competitive" bidding occurs (two or more bids of the same amount are submitted), the "high bid" is determined by GSA Auctions system's evaluation, based on the time of submission and/or by proxy.

To enhance bidder privacy and protect GSA Auctions users from fraudulent emails, GSA Auctions has changed how User IDs are displayed on the bid history page. Only you can view your User ID, all other members will see anonymous user IDs, such as Bidder#1.

As of February 14, 2008 bidders will be assigned the actual bidder number for the sale/lot based on when they placed their bid. If you are the first bidder for this sale you will see Bidder#1, if you are the second bidder you will see Bidder#2.

<table>
<thead>
<tr>
<th>Bidders in the Auction (Current top 10 bidders)</th>
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<tbody>
<tr>
<td>Bidder</td>
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44z MFR Year 2001 - GSA Auctioned closed / sold 08/25/2021 $551,000
In the third grade, our teacher said, "Quit staring out the window, because when you grow up, no one will pay you to sit there and just look out the window"...

Guess I showed her......