PARATTACK
The Evolution of Smokejumping in the BCWS
What is PARATTACK?
Operating Area and Values

Fort St. John, BC
- 36 Person Jump Base
- Turbine DC-3T Aircraft

Mackenzie, BC
- 11 Person Jump Base
- Twin Otter Aircraft
Why Parattack?

• Speed
• Range
• Payload
• Endurance
• Cost
Aircraft DC-3T Basler

The DC-3T has been used by Parrattack since 2013

Specifications

Payload: 6500lbs
Speed: 195kts
Range: 935km
Pax Load: 18 Passengers
4 hrs. of Usable Fuel
IFR (Instrumental Flight Rules)
Standard DC-3 Para Cargo Load

- 13 Firefighters
- 4 Chainsaw Kits
- 4 MK III Pumps
- 160L of Pump Fuel
- 6000 Ft. of Hose
- 48 hrs. Food and Water
- 2 First Aid Extraction Kits
- Load can be modified to any mission requirements
Aircraft: Twin Otter

Twin Otter has been used by the Parattack program for 17 seasons

Specifications

Payload: 3300lbs
Speed: 55kts
Range: 720km
Pax Load: 9 Passengers
Rotary vs. Fixed Wing Range – 1 Hour

Rotary Wing

Fixed Wing
2 Hour Range: Turbine DC-3T
Program Benefits

• Access fires quickly with enough equipment to be effective and self-sufficient for 48 hours

• Staff multiple small incidents from a single dispatch

• Staff larger incidents requiring more personnel and fire equipment

• A wide area of coverage provides greater flexibility
Average Number of Days in Prep Level 4 or Above

- Vanjam (Intermediate)
- Mackenzie (Intermediate)
- Dawson (Intermediate)
- Fort St. John (Medium)
- Fort Nelson (Medium)
Fort St John Zone Prep Costs: Twin Otter vs. Medium Helicopter

- **Para Operating Costs**
  - **$0**
  - **$100,000**
  - **$200,000**
  - **$300,000**
  - **$400,000**
  - **$500,000**
  - **$600,000**

- **Twin Otter 212 (4 hour min)**
  - **90 Days**
  - **41.7 Days**
Multi Zone Prep Costs: DC3T and Twin Otter vs. Rotary Wing

Rotary Wing Coverage

- Vanjam Intermediate
- Mackenzie Intermediate
- Dawson Intermediate
- Fort St. John Medium
- Fort Nelson Medium

DC-3 and Twin Otter Coverage

- Para Operating Costs
- Twin Otter
- DC-3
58% of Missions are outside of the Fort St. John zone

7 jump-fire Missions outside of PGFC
Jumpship Flight Profile
June 28, 2016
Jumpship
Flight Profile
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- 8 Incidents actioned and assessed
Jumpship Flight Profile
June 28, 2016

- 8 Incidents actioned and assessed
- Airborne for 4.5hrs.
Jumpship
Flight Profile
June 28, 2016

- 8 Incidents actioned and assessed
- Airborne for 4.5hrs.
- 672 km flown
Jumpship
Flight Profile
June 28, 2016

- 8 Incidents actioned and assessed
- Airborne for 4.5hrs.
- 672 km flown
  ie. Kelowna to Dawson Creek
Jumpship
Flight Profile
June 28, 2016

- 8 Incidents actioned and assessed
- Airborne for 4.5hrs.
- 672 km flown
  ie. Kelowna to Dawson Creek
- Refueling Not Required
Jumpship Flight Profile
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Jumpship
Flight Profile
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Jumpship Flight Profile
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Flight Profile
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Jumpship
Flight Profile
June 29, 2016

- 18 fire fighters deployed
Jumpship Flight Profile
June 29, 2016

- 18 fire fighters deployed
- 7,558lbs of personnel and fire gear deployed
Jumpship
Flight Profile
June 29, 2016

- 18 fire fighters deployed
- 7,558lbs of personnel and fire gear deployed
  ie.4 medium helicopter loads
Jumpship Flight Profile
June 29, 2016

- 18 fire fighters deployed
- 7,558 lbs of personnel and fire gear deployed
  - ie. 4 medium helicopter loads
- 3 remote fires staffed
Jumpship Flight Profile
June 29, 2016

- 18 fire fighters deployed
- 7,558lbs of personnel and fire gear deployed
  ie.4 medium helicopter loads
- 3 remote fires staffed
- 1349 km flown
Jumpship Flight Profile
June 29, 2016

- 18 fire fighters deployed
- 7,558 lbs of personnel and fire gear deployed
  ie. 4 medium helicopter loads
- 3 remote fires staffed
- 1349 km flown
  ie. Kelowna to San Francisco
Cost per pound weight over distance based on 4 hour flight.
Achieving our Strategic Foundation

- Low Employee Turnover
- High Levels of Fire Experience
- Succession Throughout BCWS
Thank You
www.northpeacesmokejumperbase.ca