Parkland
REFINING (B.C.) LTD.

Burnaby Refinery
Emergency Response Process

Sept 18, 2019

Emergency Response Process

- Burnaby Refinery's emergency response process consists of these foundational elements:
  - Internal policies and procedures
  - Capable response personnel
  - Standardized response protocol (Incident Command System)
  - Appropriate response equipment
  - Regular training

Emergency Response Process

- **Policies and Procedures:**
  - Emergency Notification protocol (Level 1, 2, 3 Advisories)
  - Incident Response Guide (IRG) – pre-developed response plans
  - Fire response plans – pre-developed and shared with Burnaby Fire Department (BFD)
  - Oil Pollution Emergency Plan – pre-developed response plans
  - Official plans are all reviewed and approved by regulatory bodies such as:

BC Oil & Gas COMMISSION

Transports Canada Transport Canada

Environment and Climate Change Canada
Environnement et Changement climatique Canada

Emergency Response Process

- Information Advisory recipients:
  - Burnaby Fire Department
  - Burnaby RCMP
  - Fraser Health Authority
  - City of Burnaby (Engineering, Environmental Services, Emergency Management)
  - Metro Vancouver
  - B.C. Ministry of Environment (Regional Operations Branch)
  - Port of Vancouver (Environmental Programs)
  - Environment and Climate Change Canada (Regional Office, Pacific and Yukon Region)
  - Parkland Burnaby Refinery (Shift Supervisors, Health, Safety & Environment)

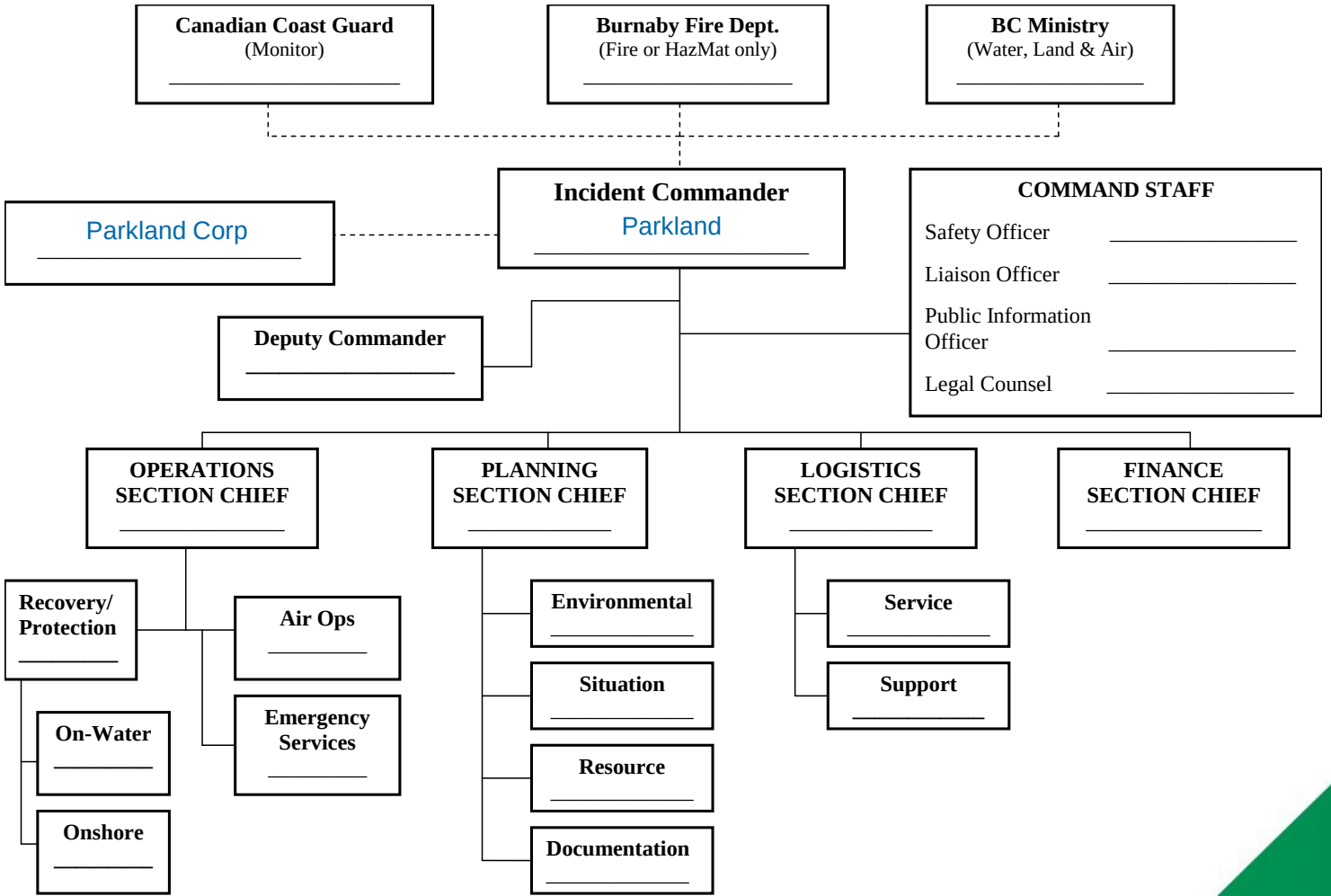
Emergency Response Process

- **Capable response personnel:**
  - Incident Command Staff (ICS) trained to Level 300/400, plus all response employees trained to minimum Level 200
  - On-shift Initial Response Team
    - Trained personnel and NFPA 1081 Fire Fighters available
  - On-call Emergency Response Team
    - Trained personnel in Fire, Oil Spill, Hazmat, Rescue, Medical and Incident Command
  - Location: Incident Command Post is pre-staged and maintained on site (safe location between A1 and A2)
    - Parkland's office in Brentwood is available if required
    - There is an Incident Command Post for our Vancouver Island operations located in Nanaimo

Burnaby Refinery's Emergency Response Team attends offsite fire training at Louisiana State University.

Emergency Response Process

- **Standardized response protocol:** Incident Command System (ICS)



Emergency Response Process

- **Appropriate Response Equipment:**
  - Fixed equipment including hydrants, fire monitors, deluge lines, extinguishers, fire water tank/pumps, etc.
  - Mobile equipment including two fire trucks, two ‘quick response’ trucks (twin agent/rescue), Hazmat trailer, Boom Boat, SCBA trailer, Fire Fighting Foam Trailer

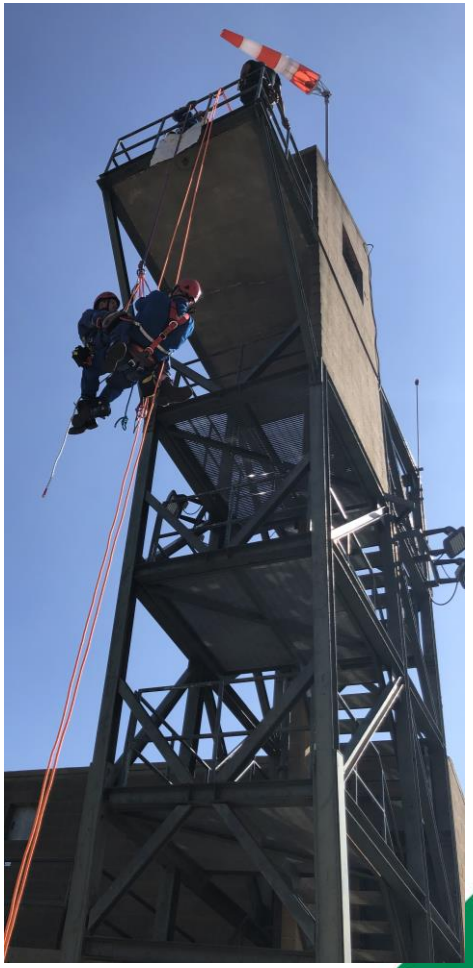
Parkland’s Self Contained Breathing Apparatus trailer.

Hazmat equipment is stored in our Hazmat trailer.

Burnaby Refinery has its own fire department and two fire trucks.

Emergency Response Process

- **Regular Training:**
  - Annual emergency response drill with external agencies to practice ICS and Emergency Response
  - In-house and external training for Fire, Spill, Boat and Rescue



Long-line rescue training.

Participants from a tank fire training course hosted at Burnaby Refinery included firefighters from Burnaby, Vancouver, Port Moody and Delta, as well as representatives from Suncor Energy.

Emergency Drill Typical Attendees

- City of Burnaby
- Burnaby Fire Department
- RCMP
- Canadian Coast Guard
- Western Canadian Marine Response Corporation
- B.C. Ministry of Environment
- Environment and Climate Change Canada
- Transport Canada
- Port of Vancouver/Harbour Master
- Local First Nations

Burnaby refinery staff practice implementing ICS at on annual emergency response drill.

Boom is deployed as part of an emergency response training exercise.

Incident Classifications: L1, L2, L3

Level 1	Level 2	Level 3
Anticipated/planned activities or events with little or no expected external impact or potential to escalate. A minor event which is effectively managed by refinery personnel. Notification is of an advisory nature only.	Any moderate level event that has, or has the potential to result in, some level of off-site concern. Incident may require a degree of structured, on-site response involving Parkland's Emergency Response Team. External reporting and notification to regulatory agencies required.	A major event requiring activation of Parkland Emergency Response Team that will involve external response resources. Communication is conducted through Unified Command Structure and a collaborative emergency response plan.
Examples: On-site alarm testing, incident response training, Turnaround work.	**Examples:** Visible fire and/or smoke, persistent or widespread odour, FCC catalyst release.	**Examples:** An explosion causing on-site and/or off-site damage, significant airborne release, major spill to water or land, major natural disaster.

Incident Communications

- Incident communications are managed through formal ICS communications process
- Available communication tools include:
  - E-mail/fax advisories to local agencies
  - Direct phone calls to agencies
  - CAP website postings
  - Letter drops to residences
  - Activation of a recorded information call-in number
  - Activation of a refinery information call center
  - Local media
  - Door to door (Burnaby Fire Department, RCMP)
  - Through **Unified Command** System

Recent Changes in Regulation

- B.C. Oil and Gas Commission
  - Updated emergency response plan is complete
  - Public Information Package (PIP) in development (plan to synergize with E2R package)

- E2R (ECCC Emergency Regulation) – In effect Summer 2020
  - Updated emergency response plan is in development
  - PIP in development (plan to synergize with BCOGC package)

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Nick Middleton
HSE Director

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