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Presentation from Bruce Power

Présentation de Bruce Power

In the Matter of the

À l'égard du

Event Initial Report

Rapport initial d'événement

**Transformer Fire and Mineral Oil Leak at
Unit 8 of Bruce B Nuclear Generating
Station**

**Incendie à un transformateur électrique et
fuite d'huile minérale à la tranche 8 de la
centrale nucléaire de Bruce-B**

Commission Meeting

Réunion de la Commission

December 13, 2018

Le 13 décembre 2018

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Bruce B

Unit 8 System Service Transformer Event

December 13, 2018 Commission Meeting



Maury Burton
Senior Director, Regulatory Affairs



Innovation at work

Background

- On Dec. 6, 2018, Bruce B Unit 8 was offline for planned maintenance; Units 5, 6, 7 at full power
- At approximately 6 p.m., system service transformer (TSS8) outside the plant failed and ignited
 - TSS8 transforms electricity from the grid to a lower voltage for station use
 - Redundant transformer with 3 others that can also supply the station



Initial response



Transformer deluged with water from permanent fire suppression system and mineral oil released into engineered catchment area.

Emergency Response Team brought fire under control (left) and kept transformer housing cooled (below). One responder treated for heat exhaustion. Emergency Management Centre activated to support response.



Ongoing actions

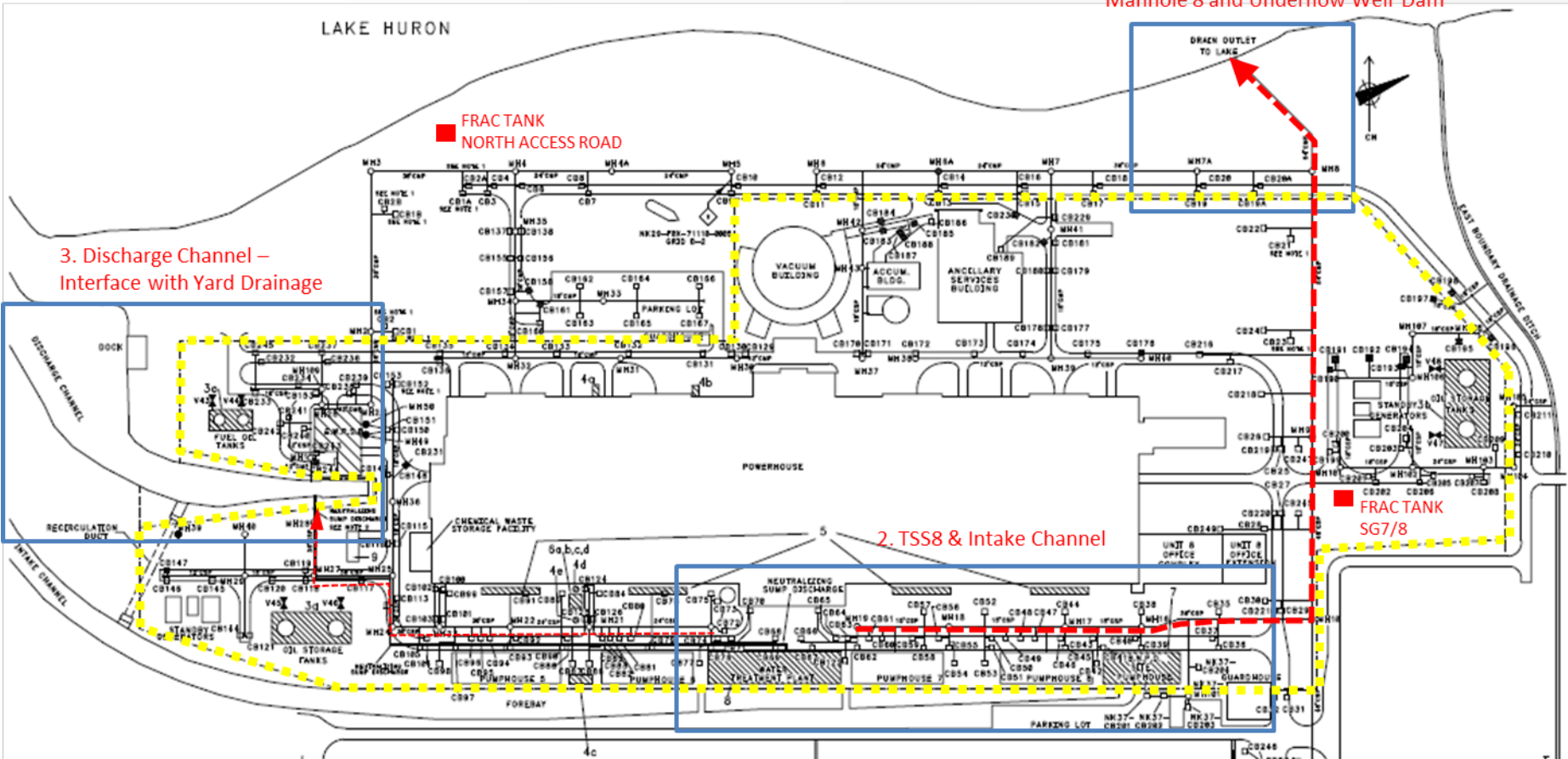
Manhole 8 and Underflow Weir Dam

3. Discharge Channel –
Interface with Yard Drainage

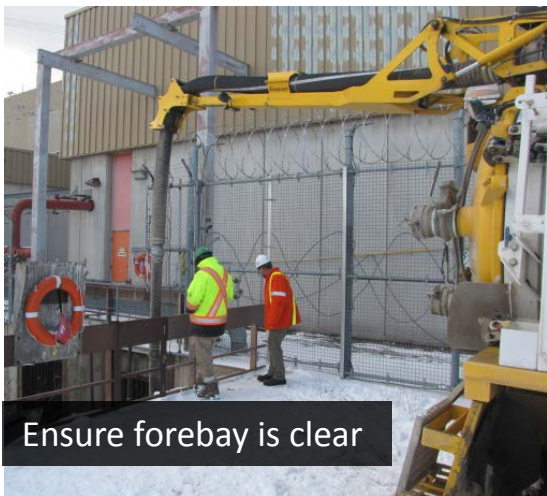
2. TSS8 & Intake Channel

■ FRAC TANK
NORTH ACCESS ROAD

■ FRAC TANK
SG7/8



Ongoing actions



Ensure forebay is clear



Capture and remove any oil detected at weir



Deploy vacuum trucks to skim/remove residual oil from Manhole 8

Current state and next steps



- Vast majority of oil collected and clean-up efforts nearing completion
- Bruce B demineralized water plant fully restored
- Root cause investigation and extent-of-condition review of all site transformers underway