| 1 | B-77 Re | nlace | Fuel | Storage, | \$222 | 200 |
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- Q. Provide a copy of the most recent inspection report that indicates the current 2
- 3 condition of the tanks.

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6 See attached inspection report. A.

NORMAN BAY FUEL STORAGE FACILITY NORTHERN REGION MARCH 2003

Fuel Storage Assessment

Two 31,822 litre steel horizontal self-dyked tanks for diesel storage are connected to the plant by an above ground pipeline. Hydro installed the fuel storage tanks under GAP permit number GAP87-051650. The fuel storage tanks are dipped every Monday with the reconciliation calculations submitted to the regional Production Supervisor of Diesel Generation on a monthly basis. A site visit was conducted on July 5, 2000 and discussions with the plant operator provided some information to assess the facility.

A fuel meter was installed on the fill side of the day tank in the fall of 2000. This was necessary for fuel reconciliation as required by Provincial Environment.

M&M Industries fabricated the fuel storage tanks in 1988 to ULC S602 standards. One has a ULC serial number A863755C but the other does not have a serial number. The GAP permit number for both tanks is GAP87-051650, Hydro identification numbers are 701 and 702. There is no WHMIS labeling on the tanks. The painting system originally used was Devoe epoxy, Hydro blue, and the tanks were last painted when fabricated. Normal venting is provided through 50 mm piping and 150 mm theft gauge hatches provided emergency venting. The tanks are currently top filled. The dyke systems consist of steel secondary containment without dyke covers. The dyke is drained of precipitation by a hand pump.

Fuel is supplied to the plant through a 75 mm diameter steel pipeline, having all steel fittings that were originally installed in 1988. There are no easily accessible shut-off valves located outside each dyke wall, in addition to the standard solenoid valve arrangement. The pipeline is approximately 16.2 metres in length, above ground, and

was last painted with blue Devoe epoxy when installed. Contents labeling and directional flow indications were not present on the fuel line. No flagging exists on the pipe. The site is not fenced.

Recommendations

Two horizontal above ground fuel oil storage tanks are located at this site and the following items require attention:

- Replace the current normal vents with 75 mm diameter normal vents.
- Refurbish tank with Hydro number 702 to obtain ULC certification and a new ULC serial number to replace the lost ULC label.
- Repair the fuel transfer system in the pump room.
- Remove all items from the pump room except those necessary for its operation.
- Install a catch basin under the fill connection.
- Paint the fuel tanks and pipeline.
- Install an isolation valve outside each dyke for each tank on the pipeline.
- Install flagging on the pipeline to prevent vehicular damage.