Canadian National Demolition

PCB Light Ballast and Mercury Switches Abatement and Sorting Criteria

Fort Francis Paper Mill Demolition Project

As outlined in the DSS report there are fluorescent light fixtures and various mercury containing thermostats, gauges and thermometers that have been identified in the project buildings and will be encountered through out the demolition process. The lights where noted to be a mixture of four-foot, two lamp and four lamp fixtures. Most of the lamps were noted to be T12; however, some of the four-lamp fixtures were noted to be retrofitted with newer T8 lamps. A total of approximately 20,000 HID lamps were also present throughout the project buildings. These lights could not be accessed for further evaluations and therefore they are assumed to contain PCB's

Additionally, it was noted that mercury-containing thermostats, gauges and thermometers associated with the boiler and other mechanical equipment were observed in the subject buildings

Canadian National Demolition will remove these lights and mercury containing fixtures using the following procedures and sorting criteria. Due to the accessibility of some of these fixtures' abatement removal and sorting of these fixtures will occur in conjunction with the demolition process

All PCB / Mercury contaminated waste will be disposed of as required by O. Reg 347 at an approved waste facility

Abatement and Removal Sequence for PCB Ballast:

1. Define the job tasks and identify work area
2. Isolate work area from adjacent working areas and post signage
3. Properly place and set-up tools and equipment: ensure all tools and equipment are in good working order and readily available
4. Ensure housekeeping area is well maintained (clean and clear work area as work progresses)
5. Per scope of work, identify and apply applicable procedures for sorting and disposal of PCB containing equipment
6. Ensure all required PPE and equipment are on-site.
7. Assign tasks to the workers.
8. Workers to wear all required PPE and enter work.
9. Perform removal process using approved methods as defined in the JSA for the task or daily safe work permits
10. All waste to be put in suitable containers, ie; placed in lined container or barrel

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PCB containing light ballast sorting criteria:

All possible PCB containing light ballasts and wall mounted transformers that have been noted on the DSS report will be removed and sorted via the following criteria prior to demolition of the Phase #1 of the Fort Francis project

Manufacturer	PCB Identifier code and sorting criteria
Aerovox (Canada)	✓ **PCB's where used up to and including June 1978 (7806)** The first 2 numbers are the year and the last 2 numbers are the month it was produced ✓ **Look at the first 6-digit code on the capacitor** If the 5th digit is an "F" PCB's are present
Advanced **(Ballasts in Phillips equipment)**	✓ **3- or 4-digit number code the first 2 number are the moth and the last two numbers are the year it was produced** PCB's are present up to and including 1978
Allanson Division of Jannock LTD.	✓ **2 letter code on the cover.** First letter is the month, starting with "A" for January, and the second letter is the year, starting with "A" for 1969 (ex, February 1972 = BD) "N" = NON-PCB PCB are present up to and including December 1980 (LL)
Canadian General Electric	✓ **Seven-digit code on the cover.** PCB are NOT present if one of the two final letters is "E" PCB are likely present if one of the two final letters is "T" ✓ **Four number code on the housing.** The first two numbers, when reversed, are the year (ex. 1976 = 67) and the last two numbers are the month. PCB are present up to and including March 1978 (8703)
Westinghouse, Magnatex, Polygon	✓ **Same as Canadian General Electric (see above)** the last 4 numbers of the code represent the year and the month. PCB may be present up to and including June 1980 (June 1980 = 8006)
Magnatex, Universal USA	✓ Refer to digit code. The first letter is the month (A = January) and the last two numbers are the year. PCB are present up to and

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	including December 1978 (L78). PCB are absent if "N" follows the code.
Philips Electronics	✓ Coding system changed in 1980. Ballasts made after 1979 are marked as being PCB FREE
Sola Canada	✓ Three-digit letter and number code on label. The first letter is the month (A=January) and the last two numbers are the year. PCB are present up to and including December 1979 (L79)

Abatement and Removal Sequence for Mercury Containing Devices

1. Define the job tasks and identify work area
2. Isolate work area from adjacent working areas and post signage
3. Properly place and set-up tools and equipment: ensure all tools and equipment are in good working order and readily available
4. Ensure housekeeping area is well maintained (clean and clear work area as work progresses
5. Assign tasks to the workers.
6. Workers to wear all required PPE and enter work.
7. Assess mercury items to be removed
8. Ensure proper spill kit is readily available
9. Do not remove the switches from thermostats, keep them intact
10. Perform removal process using approved methods as defined in the JSA for the task or daily safe work permits
11. Place mercury switches etc. and mercury containing devices, in proper containers ex: (drums, glass containers)
12. Dispose of according to Provincial Regulations