

Table 4

Emission Summary Table
General Electric Canada Inc. / BWXT Technologies
Peterborough, Ontario

Contaminant	CAS Number	Total Facility Emission Rate (g/s)	Air Dispersion Model Used	Maximum Groundlevel Concentration (ug/m ³)	Averaging Period (hours)	MECP POI Limit (ug/m ³)	Limiting Effect	Regulation Schedule #	Percentage of MECP POI Limit
Ethyl Benzene	100-41-4	3.53E-01	AERMOD	4.84E+01	24	1000	Odour	B1	5%
Ethyl Benzene	100-41-4	3.53E-01	AERMOD	1.60E+02	10-min	1900	Health	B1	8%
benzyl alcohol	100-51-6	2.76E-01	AERMOD	3.78E+01	24	880	Health	B1	4%
Nitrogen Oxides (NOX)	10102-44-0	8.54E-01	AERMOD	1.25E+02	1	400	Health	B1	31%
Methyl Isobutyl Ketone	108-10-1	6.21E-01	AERMOD	8.51E+01	24	1200	Odour	B1	7%
m-xylene	108-38-3	1.20E-01	AERMOD	1.65E+01	24	730 (1)	Health	B1	2%
m-xylene	108-38-3	1.20E-01	AERMOD	5.44E+01	10-min	3000 (1)	Odour	B1	2%
cyclohexanone	108-94-1	1.20E+00	AERMOD	1.65E+02	24	400	Health	B2	41%
Xylenes	1330-20-7	1.22E+00	AERMOD	1.68E+02	24	730	Health	B1	23%
Xylenes	1330-20-7	1.22E+00	AERMOD	5.53E+02	10-min	3000	Odour	B1	18%
Barite	13462-86-7	3.17E-03	AERMOD	4.34E-01	24	2.5	Health	B2	17%
Talc	14807-96-6	9.50E-03	AERMOD	1.30E+00	24	2	Health	B1	65%
Quartz, Silica	14808-60-7	1.17E-03	AERMOD	1.60E-01	24	5	Health	B1	3%
Chromium (VI)	18540-29-9	1.55E-08	AERMOD	1.02E-06	Annual	0.00014	Health	B1	<1%
Epoxy Resin	25068-38-6	6.58E-02	AERMOD	9.01E+00	24	120	Health & Particulate	B2	8%
isophoronediamine	2855-13-2	6.67E-04	AERMOD	9.14E-02	24	19	Health	B2	<1%
Propylene Glycol T-butyl Ether	57018-52-7	1.04E-01	AERMOD	1.42E+01	24	365	Health	B2	4%
Aromatic 100	64742-95-6	1.12E-01	AERMOD	1.53E+01	24	500	Health	B2	3%
Nickel	7440-02-0	2.42E-05	AERMOD	1.59E-03	Annual	0.04	Health	B1	4%
Chromium	7440-47-3	2.17E-04	AERMOD	1.15E-01	24	0.5	Health	B1	23%
Uranium	7440-61-1	4.13E-10	AERMOD	1.59E-07	Annual	0.03	Health	B1	<1%
Vinyl Chloride	75-01-4	1.51E-04	AERMOD	2.23E-01	24	1	Health	B1	22%
Isobutyl Alcohol	78-83-1	1.04E-01	AERMOD	1.42E+01	24	4600	Health	B1	<1%
Isobutyl Alcohol	78-83-1	1.04E-01	AERMOD	4.68E+01	10-min	2340	Odour	B1	2%
Methyl Ethyl Ketone (MEK)	78-93-3	3.68E+00	AERMOD	5.04E+02	24	1000	Health	B1	50%
Trichloroethylene	79-01-6	6.81E-03	AERMOD	1.00E+01	24	12	Health	B1	84%
Naphthalene	91-20-3	4.96E-03	AERMOD	6.80E-01	24	22.5	Health	B1	3%
Naphthalene	91-20-3	4.96E-03	AERMOD	2.24E+00	10-min	50	Odour	B1	4%
PM	NA-2	2.26E-02	AERMOD	1.20E+01	24	120	Visibility	B1	10%

Notes:

(1) Limit for Xylene used as per Note 22 in the ACB List

Note: Vinyl Chloride and Trichloroethylene do not pertain to BWXT operations

Table 3

**Acoustic Assessment Summary
General Electric/ BWXT
Peterborough, Ontario**

Point of Reception ID	Point of Reception Description	Time of Day	SteadyState Sound Levels (L _{EQ})	Steady State Performance Limit ¹ (L _{EQ})	Emergency Sound Levels (L _{EQ})	Emergency Sound Performance Limit ¹ (L _{EQ})	Compliance with Performance Limit (Yes/No)	Class Number	Verified by Acoustic Audit
			(dBA)	(dBA)	(dBA)	(dBA)			
Emergency Noise Impact									
POR1	1178 Monaghan Road	07:00–19:00	42	50	31	55	Yes	Class 2	No
		19:00–23:00	42	50	—	55	Yes	Class 2	No
		23:00–07:00	42	45	—	50	Yes	Class 2	No
OPOR1	Outside 1178 Monaghan Road	07:00–19:00	45	50	33	55	Yes	Class 2	No
		19:00–23:00	45	50	—	55	Yes	Class 2	No
		23:00–07:00	45	45	—	50	Yes	Class 2	No
POR2	508 Wolfe Street	07:00–19:00	43	50	37	55	Yes	Class 2	No
		19:00–23:00	43	50	—	55	Yes	Class 2	No
		23:00–07:00	43	45	—	50	Yes	Class 2	No
OPOR2	Outside 588 Wolfe Street	07:00–19:00	45	50	37	55	Yes	Class 2	No
		19:00–23:00	45	50	—	55	Yes	Class 2	No
		23:00–07:00	45	45	—	50	Yes	Class 2	No
POR3	572 Wolfe Street	07:00–19:00	45	50	54	55	Yes	Class 2	No
		19:00–23:00	45	50	—	55	Yes	Class 2	No
		23:00–07:00	45	45	—	50	Yes	Class 2	No
OPOR3	Outside 572 Wolfe Street	07:00–19:00	45	50	54	55	Yes	Class 2	No
		19:00–23:00	45	50	—	55	Yes	Class 2	No
		23:00–07:00	45	45	—	50	Yes	Class 2	No
POR4	560 Wolfe Street	07:00–19:00	42	50	50	55	Yes	Class 2	No
		19:00–23:00	42	50	—	55	Yes	Class 2	No
		23:00–07:00	42	45	—	50	Yes	Class 2	No
OPOR4	Outside 560 Wolfe Street	07:00–19:00	43	50	49	55	Yes	Class 2	No
		19:00–23:00	43	50	—	55	Yes	Class 2	No
		23:00–07:00	43	45	—	50	Yes	Class 2	No
POR5	Outside 560 Wolfe Street	07:00–19:00	40	50	45	55	Yes	Class 2	No
		19:00–23:00	40	50	—	55	Yes	Class 2	No
		23:00–07:00	40	45	—	50	Yes	Class 2	No
OPOR5	Outside 524 Wolfe Street	07:00–19:00	39	50	44	55	Yes	Class 2	No
		19:00–23:00	39	50	—	55	Yes	Class 2	No
		23:00–07:00	39	45	—	50	Yes	Class 2	No
POR6	148 Hart Ave	07:00–19:00	33	50	36	55	Yes	Class 2	No
		19:00–23:00	33	50	—	55	Yes	Class 2	No
		23:00–07:00	33	45	—	50	Yes	Class 2	No
OPOR6	Outside 148 Hart Ave.	07:00–19:00	31	50	33	55	Yes	Class 2	No
		19:00–23:00	31	50	—	55	Yes	Class 2	No
		23:00–07:00	31	45	—	50	Yes	Class 2	No
POR7	126 Park Street North	07:00–19:00	32	50	27	55	Yes	Class 2	No
		19:00–23:00	32	50	—	55	Yes	Class 2	No
		23:00–07:00	32	45	—	50	Yes	Class 2	No
OPOR7	Outside 126 Park Street North	07:00–19:00	34	50	32	55	Yes	Class 2	No
		19:00–23:00	34	50	—	55	Yes	Class 2	No
		23:00–07:00	34	45	—	50	Yes	Class 2	No
POR8	493 Albert Street	07:00–19:00	36	50	22	55	Yes	Class 2	No
		19:00–23:00	36	50	—	55	Yes	Class 2	No
		23:00–07:00	36	45	—	50	Yes	Class 2	No
OPOR8	Outside 493 Albert Street	07:00–19:00	35	50	19	55	Yes	Class 2	No
		19:00–23:00	35	50	—	55	Yes	Class 2	No
		23:00–07:00	35	45	—	50	Yes	Class 2	No
POR9	535 Albert Street	07:00–19:00	40	50	24	55	Yes	Class 2	No
		19:00–23:00	40	50	—	55	Yes	Class 2	No
		23:00–07:00	40	45	—	50	Yes	Class 2	No
OPOR9	Outside 535 Albert Street	07:00–19:00	38	50	21	55	Yes	Class 2	No
		19:00–23:00	38	50	—	55	Yes	Class 2	No
		23:00–07:00	38	45	—	50	Yes	Class 2	No
POR10	613 Frank Street	07:00–19:00	41	50	20	55	Yes	Class 2	No
		19:00–23:00	41	50	—	55	Yes	Class 2	No
		23:00–07:00	41	45	—	50	Yes	Class 2	No
OPOR10	Outside 613 Frank St	07:00–19:00	43	50	21	55	Yes	Class 2	No
		19:00–23:00	43	50	—	55	Yes	Class 2	No
		23:00–07:00	43	45	—	50	Yes	Class 2	No

Note:

¹ Minimum MECP sound level limits as defined in NPC-300 and Chapter 3 of the EASR Publication.