

# Environmental Management System Summary Reports



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- Generation
  - Transmission and Distribution

**ENVIRONMENTAL MANAGEMENT PROGRAMS SUMMARY REPORT (GENERATION) - 2007 Q4** (2008 01 08)

Objective	Status	Target	Status	Program Action Items	Responsibility	Scheduled Completion Date	Status	Comments
<b>Wooden Penstock Removal Program</b>								
<i>Corporate Generation Objective</i>								
Eliminate 9 creosote treated wooden penstocks between 2001 and December 31, 2012.	6 wooden penstocks have been eliminated (67% of objective).	Replace 1 creosote treated wooden penstock by December 31, 2007.	Complete.	Replace Rattling Brook Penstock.	Gary Murray	Dec. 31, 2007	6 penstocks have been replaced.	
<i>Generation Department Objective</i>								
Replace 9 creosote treated wooden penstocks by December 31, 2012 with steel or fiberglass.	6 wooden penstocks have been eliminated (67% of objective).	Replace 1 creosote treated wooden penstock by December 31, 2007.	Complete.	Replace Rattling Brook Penstock.	Gary Murray	Dec. 31, 2007	6 penstocks have been replaced.	
<i>Generation Group Objective</i>								
Replace 1 creosote treated wooden penstocks replacement by December 31, 2007.	Complete.	Replace Rattling Brook Penstock by December 31, 2007.	Complete.	Replace Rattling Brook Penstock.	Gary Murray	Dec. 31, 2007	Installation complete.	
<b>Bearing Oil Cooling System Control Enhancement Program</b>								
<i>Corporate Generation Objective</i>								
Minimize the potential for petroleum releases in hydro plants by 2008.	84% complete.	Minimize the potential for petroleum releases in 5 plants by the end of 2007.	Ongoing	25 - solenoids 6 - pressure transmitters 10 - flow meters	Jennifer Williams	Dec. 31, 2007	20 plants complete.	
<i>Generation Department Objective</i>								
Reduce the release of petroleum products into the environment originating from power plants by 2008.	84% complete.	Make improvements to 5 plants around oil and oil filled equipment by the end of 2007.	Ongoing	25 - solenoids 6 - pressure transmitters 10 - flow meters	Jennifer Williams	Dec. 31, 2007	20 plants complete.	
<i>Generation Group Objective</i>								
Make improvements to 5 plants around oil and oil filled equipment by end of 2007.	Complete.	Make improvements at ROP, CAB, RBK, PHR and LBK by December 31, 2007.	Complete	Solenoids: ROP - 3; CAB - 4; RBK - 14; PHR - 2; LBK - 2 Pressure Transmitters: RBK - 6 Flow Meters: CAB - 1; RBK - 8; PHR - 1.	Jennifer Williams	Dec. 31, 2007	Complete.	

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<b>Fisheries Compliance Program</b>								
<i>Corporate Generation Objective</i>								
This program was removed. Bernie Ryan is still monitoring developments.								
<b>Heat Exchanger Enhancement Program</b>								
<i>Generation Department Objective</i>								
Enhance 12 heat exchanger systems before December 31, 2008.	92% complete.	Minimize the potential for petroleum release due to a heat exchanger failure at 2 plants by December 31, 2007.	Complete.	Replace existing heat exchanger with new unit at TOP and Lawn Plants.	Jennifer Williams	Dec. 31, 2007	11 heat exchangers completed.	Tors Cove G2 was replaced due to failure.
<i>Generation Group Objective</i>								
Make improvements to the heat exchanger system at 2 plants by December 31, 2007.	Complete (3 plants)	Replace existing heat exchanger with new unit at TOP and Lawn Plants by December 31, 2007.	Complete.	Replace existing heat exchanger with new unit at TOP and Lawn Plants.	Jennifer Williams	Dec. 31, 2007	Topsail, Lawn and Tors Cove G2 complete.	Tors Cove G2 was replaced due to failure.
<b>Rattling Brook Hydroelectric System - Capacity Increase Program</b>								
<i>Generation Department Objective</i>								
Increase the capacity of RBK Hydroelectric System by December 31, 2007	Complete.	Modify the RBK System to increase generation capacity by December 31, 2007.	Complete.	Replace existing penstock with larger diameter penstock.	Gary Murray	Dec. 31, 2007	Installation complete.	
<i>Generation Group Objective</i>								
Increase the capacity of RBK Generating Facility by December 31, 2007.	Complete.	Increase the diameter of the penstock from an existing 2.1 / 2.3 meters to 2.9 meters.	Complete.	Replace existing penstock with larger diameter penstock.	Gary Murray	Dec. 31, 2007	Installation complete.	

## ENVIRONMENTAL MANAGEMENT PROGRAMS SUMMARY REPORT (Corporate and T & D) - 2007 4Q

January 8, 2008

Objective	Status	Target	Status	Program Action Items	Responsibility	Scheduled Completion Date	Status	Comments
<b>PCB ELIMINATION</b>								
<b>Corporate Objectives</b>								
Eliminate all PCB contaminated oil filled distribution equipment in service by 2009. (73% of all feeders should be non-PCB by year end 2007).	213 feeders (69% of total feeders) confirmed non-PCB.	Eliminate PCB contaminated oil filled distribution equipment on 54 feeders (18% of total feeders) by Dec 31, 2007.	43 feeders (80% of 2007 targeted feeders) determined to be non-PCB.	Identify and remove PCB contaminated distribution equipment on 54 feeders by Dec 31, 2007.	M. Jardine (Eastern) S. Ainsworth (Western)	31-Dec-07	43 Feeders have been confirmed non-PCB.	
Eliminate all PCB contaminated oil filled substation equipment in service by 2014. (83% of all of substations should be non-PCB by year end 2007).	107 substations (82% of total substations confirmed non-PCB.	Eliminate PCB contaminated oil filled substation equipment from 44 substations (34% of total substations) by Dec 31, 2007.	43 substations (98% of 2007 targeted substations) determined to be non-PCB.	Identify and remove PCB contaminated substation equipment from 44 substations by Dec 31, 2007.	S. LaCour	31-Dec-07	43 substations have been confirmed non-PCB.	
<b>Eastern Objective</b>								
Eliminate PCB contaminated oil filled distribution equipment in Eastern Region by Dec 31, 2009.	132 feeders (66% of Eastern feeders) confirmed non-PCB.	Make the 33 identified feeders non-PCB by the end of 2007.	29 feeders (88% of 2007 target) has been confirmed non-PCB.	(1) Identify all PCB contaminated distribution equipment on 33 feeders by the end of 2007. (2) Identify all distribution equipment that has not been marked to indicate PCB level and take oil sample on a feeder by feeder basis. (3) All distribution equipment identified as having a PCB level 50 mg/kg or greater will be changed out.	P.Feehan D. Chafe E. Doyle	31-Dec-07	29 feeders has been confirmed non-PCB.	K. Green replaced E. Doyle on a temporary basis as of November 1, 2007.
<b>Eastern Area Objectives</b>								
Eliminate PCB contaminated oil filled distribution equipment on 17 St. John's Area feeders by Dec 31, 2007.	17 feeders (100% of 2007 target) confirmed non-PCB.	Make the 17 identified feeders non-PCB by the end of 2007.	17 feeders (100% of 2007 target) have been confirmed non-PCB.	(1) Identify all PCB contaminated distribution equipment on 17 feeders by the end of 2007. (2) Identify all distribution equipment that has not been marked to indicate PCB level and take oil sample on a feeder by feeder basis. (3) All distribution equipment identified as having a PCB level 50 mg/kg or greater will be changed out.	P.Feehan	31-Dec-07	17 feeders have been confirmed non-PCB.	

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Eliminate PCB contaminated oil filled distribution equipment on 8 Avalon Area feeders by Dec 31, 2007.	7 feeders (88% of 2007 target) confirmed non-PCB.	Make the 8 identified feeders non-PCB by the end of 2007.	7 feeders (88% of 2007 target) have been confirmed non-PCB.	(1) Identify all PCB contaminated distribution equipment on 8 feeders by the end of 2007. (2) Identify all distribution equipment that has not been marked to indicate PCB level and take oil sample on a feeder by feeder basis. (3) All distribution equipment identified as having a PCB level 50 mg/kg or greater will be changed out.	D. Chafe	31-Dec-07	7 feeders have been confirmed non-PCB.	
Eliminate PCB contaminated oil filled distribution equipment on 8 Clarenville/Burin Area feeders by Dec 31, 2007.	5 feeders (63% of 2007 target) confirmed non-PCB.	Make the 8 identified feeders non-PCB by the end of 2007.	5 feeder (63% of 2007 target) has been confirmed non-PCB.	(1) Identify all PCB contaminated distribution equipment on 8 feeders by the end of 2007. (2) Identify all distribution equipment that has not been marked to indicate PCB level and take oil sample on a feeder by feeder basis. (3) All distribution equipment identified as having a PCB level 50 mg/kg or greater will be changed out.	E. Doyle	31-Dec-07	5 feeders has been confirmed non-PCB.	K. Green replaced E. Doyle on a temporary basis as of November 1, 2007.
<b>Western Objective</b>								
Eliminate PCB contaminated oil filled distribution equipment in Western Region by Dec 31, 2009.	81 feeders (76% of Western feeders) confirmed non-PCB.	Make 21 feeders non-PCB by the end of 2007.	14 feeders (67% of 2007 target) has been confirmed non-PCB.	(1) Identify all PCB contaminated oil filled distribution equipment on 21 feeders by the end of 2007. (2) Identify all distribution equipment that has not been marked to indicate PCB level and take oil sample on a feeder by feeder basis. (3) All oil filled distribution equipment identified as having a PCB level 50 mg/kg or greater will be changed out.	B. Daye C. Bishop R. Duffy	31-Dec-07	14 feeders has been confirmed non-PCB.	

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<b>Western Area Objectives</b>								
Eliminate PCB contaminated oil filled distribution equipment on 11 Grand Falls/Gander Area feeders by Dec 31, 2007.	8 feeders (73% of 2007 target) confirmed non-PCB.	Make the 11 identified feeders non-PCB by the end of 2007.	8 feeder (73% of 2007 target) has been confirmed non-PCB.	(1) Identify all PCB contaminated oil filled distribution equipment on 11 feeders by the end of 2007. (2) Identify all distribution equipment that has not been marked to indicate PCB level and take oil sample on a feeder by feeder basis. (3) All oil filed distribution equipment identified as having a PCB level 50 mg/kg or greater will be changed out.	B. Daye	31-Dec-07	8 feeders have been confirmed non-PCB.	
Eliminate PCB contaminated oil filled distribution equipment on 8 Corner Brook Area feeders by Dec 31, 2007.	4 feeders (50% of 2007 target) confirmed non-PCB.	Make the 8 identified feeders non-PCB by the end of 2007.	4 feeders (50% of 2007 target) has been confirmed non-PCB.	(1) Identify all PCB contaminated oil filled distribution equipment on 8 feeders by the end of 2007. (2) Identify all distribution equipment that has not been marked to indicate PCB level and take oil sample on a feeder by feeder basis. (3) All oil filed distribution equipment identified as having a PCB level 50 mg/kg or greater will be changed out.	C. Bishop	31-Dec-07	4 feeders has been confirmed non-PCB.	
Eliminate PCB contaminated oil filled distribution equipment on 2 Stephenville Area feeders by Dec 31, 2007.	2 feeders (100% of 2007 target) confirmed non-PCB.	Make the 2 identified feeder non-PCB by the end of 2007.	2 feeders (100% of 2007 target) have been confirmed non-PCB.	(1) Identify all PCB contaminated oil filled distribution equipment on 2 feeders by the end of 2007. (2) Identify all distribution equipment that has not been marked to indicate PCB level and take oil sample on a feeder by feeder basis. (3) All oil filed distribution equipment identified as having a PCB level 50 mg/kg or greater will be changed out.	R. Duffy	31-Dec-07	2 feeders have been confirmed non-PCB.	

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Objective	Status	Target	Status	Program Action Items	Responsibility	Scheduled Completion Date	Status	Comments
<b>Engineering Department Objective</b>								
Eliminate PCB contaminated oil filled equipment located in substations by 2014 (83% of all equipment should be non-PCB by the end of 2007).	107 substations confirmed non-PBC (82% of total substations).	Make the 44 identified substation non-PCB by the end of 2007.	43 substations (98% of 2007 target) have been confirmed non-PCB.	(1) Identify all PCB contaminated oil filled electrical equipment from 44 substations by the end of 2007. (2) Identify all oil filled electrical equipment that has not been marked to indicate PCB level and take oil sample on a substation-by-substation basis (3) All oil filled electrical equipment identified as having a PCB level 50 mg/kg or greater will be changed out or refilled with new oil so that its level is below 50 mg/kg.	R. Spurrell	31-Dec-07	43 substations confirmed non-PCB.	
<b>Substation and Electrical Maintenance Group Objective</b>								
Eliminate PCB contaminated oil filled equipment located in 44 substations by Dec 31, 2007 (83% of all substation oil filled equipment should be non-PCB by the end of 2007).	43 substations confirmed non-PBC (98% of 2007 target).	Make the 44 identified substations non-PCB by the end of 2007.	43 substations (98% of 2007 target) have been confirmed non-PCB.	(1) Identify all PCB contaminated oil filled electrical equipment from 44 substations by the end of 2007. (2) Identify all oil filled electrical equipment that has not been marked to indicate PCB level and take oil sample on a substation-by-substation basis (3) All oil filled electrical equipment identified as having a PCB level 50 mg/kg or greater will be changed out or refilled with new oil so that its level is below 50 mg/kg.	R. Spurrell	31-Dec-07	43 substations confirmed non-PCB.	
<b>SF6 MANAGEMENT</b>								
<b>Engineering Department Objective</b>								
Conduct major maintenance overhauls on 31 Westinghouse/Siemans SF6 Breakers by Dec. 31, 2012.	14 Breakers (45% of targeted breakers) have been completed.	Conduct major maintenance on the 4 identified SF6 Breakers by the end of 2007.	4 Breakers (100% of 2007 target) has been completed.	Conduct major maintenance overhauls, which will address all components of the SF6 equipment, so as to minimize the risk of leaks on 4 Westinghouse/Siemans SF6 breakers by the end of 2007.	S. LaCour	31-Dec-07	4 Breakers has been completed	
<b>Maintenance Group Objective</b>								
Conduct major maintenance overhauls on 4 Westinghouse/Siemans SF6 Breakers by Dec. 31, 2007.	4 Breakers (100% of 2007 target) has been completed.	Conduct major maintenance on 4 SF6 Breakers by the end of 2007.	4 Breakers (100% of 2007 target) has been completed.	Conduct major maintenance overhauls, which will address all components of the SF6 equipment, so as to minimize the risk of leaks on 4 Westinghouse/Siemans SF6 breakers by the end of 2007.	S. LaCour	31-Dec-07	4 Breakers has been completed	

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<b>MINI PAD REPLACEMENT</b>								
<b>St. John's Area Objective</b>								
Replace 100 mini padmount transformers in St. John's Area with stainless steel by 2010	25 Mini padmount transformers (25% of targeted mini pads) have been replaced	Replace 25 mini padmount transformers with stainless steel units	25 Mini padmounts (100% of 2007 target) have been replaced.	Replace 25 mild steel mini padmount transformers with stainless steel units by the end of 2007.	P. Feehan	31-Dec-07		25 Mini padmount transformers have been replaced