

**ENVIRONMENTAL MANAGEMENT PROGRAMS SUMMARY REPORT - 2009 Q4** (2010 01 07)

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	7 wooden penstocks have been eliminated (77% of objective).	Replace 1 creosote treated wooden penstock by December 31, 2009.	Completed	Replace Rocky Pond Penstock.	Gary Murray	Dec. 31, 2009		
<i>Generation Department Objective</i>								
Replace 9 creosote treated wooden penstocks by December 31, 2012 with steel or fiberglass.	7 wooden penstocks have been eliminated (77% of objective).	Replace 1 creosote treated wooden penstock by December 31, 2009.	Completed	Replace Rocky Pond Penstock.	Gary Murray	Dec. 31, 2009		
<i>Generation Group Objective</i>								
Replace 1 creosote treated wooden penstocks replacement by December 31, 2009.	Completed	Replace Rocky Pond Penstock by December 31, 2009.	Completed	Replace Rocky Pond Penstock.	Gary Humby	Dec. 31, 2009	Completed . Wooden penstock has been replaced with steel penstock.	
<b>Wicket Gate Bushing Replacement Program</b>								
<i>Corporate Generation Objective</i>								
Minimize the potential for petroleum releases due to greased bushings in 4 hydro plants by 2012.	1 plant completed (25% of objective)	No work planned for 2009. Mobile Plant has been deferred until completion of Water Use Negotiations with City of St. John's	Work deferred for 2009	No work planned for 2009	Gary Murray			No work planned for 2009. Mobile Plant has been deferred until completion of Water Use Negotiations with City of St. John's
<i>Generation Department Objective</i>								
Reduce the release of petroleum products into the environment originating from 4 power plants by 2012.	1 plant completed (25% of objective)	No work planned for 2009. Mobile Plant has been deferred until completion of Water Use Negotiations with City of St. John's	Work deferred for 2009	No work planned for 2009	Jennifer Williams			No work planned for 2009. Mobile Plant has been deferred until completion of Water Use Negotiations with City of St. John's
<i>Generation Group Objective</i>								
Make improvements to 0 plant by December 31, 2009	No work planned for 2009	No work planned for 2009. Mobile Plant has been deferred until completion of Water Use Negotiations with City of St. John's		No work planned for 2009	Jennifer Williams			No work planned for 2009. Mobile Plant has been deferred until completion of Water Use Negotiations with City of St. John's

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<b>Runner Replacement Program</b>								
<i>Corporate Generation Objective</i>								
Maximize the efficient use of water through installation of optimized runners at 5 Company hydro plants by 2014	1 turbine runner has been replaced (20% of objective)	Complete engineering to replace 1 turbine runner with an optimized runner by December by 31, 2009	Engineering completed	Complete engineering to replace 1 turbine runner at Company hydro plant by December 31, 2009	Gary Murray	Dec. 31, 2009		
<i>Generation Department Objective</i>								
Replace 5 turbine runners by December 31, 2014	1 turbine runner has been replaced (20% of objective)	Complete engineering to replace 1 turbine runner with an optimized runner by December by 31, 2009	Engineering completed	Complete engineering to replace 1 turbine runner at Company hydro plant by December 31, 2009	Gary Humby	Dec. 31, 2009		
<i>Generation Group Objective</i>								
Complete engineering to replace 1 turbine runner at Company hydro plant by December 31, 2009	Engineering completed	Complete engineering to replace 1 turbine runner with an optimized runner at Seal Cove Plant by December 31, 2009	Engineering completed	Complete engineering to replace 1 turbine runner with an optimized runner at Seal Cove Plant by December by 31, 2009	Gary Humby	Dec. 31, 2009	Engineering completed	
<b>Hydroelectric Energy Production Increase</b>								
<i>Corporate Generation Objective</i>								
Increase hydroelectric energy production at 6 Company hydro plants by December 31, 2014	One plant completed	Increase energy production at 1 hydro plant by December 31, 2009	Completed	Increase energy production at one hydro plant by December 31, 2009	Gary Murray	Dec. 31, 2009		
<i>Generation Department Objective</i>								
Increase hydroelectric energy production at 6 Company hydro plants by December 31, 2014	One plant completed	Increase energy production at 1 hydro plant by December 31, 2009	Completed	Increase energy production at one hydro plant by December 31, 2009	Gary Murray	Dec. 31, 2009		
<i>Generation Group Objective</i>								
Increase hydroelectric energy production at 1 Company hydro plant by December 31, 2014	Completed	Increase the height of Rose Blanche spillway by 1.2 meters by December 31, 2009	Completed	Increase the height of Rose Blanche spillway by 1.2 meters by December 31, 2009	Gary Humby	Dec. 31, 2009	Completed. Spillway raised.	

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<b>Bearing Oil Cooling System Control Enhancement Program</b>								
<i>Corporate Generation Objective</i>								
Minimize the potential for petroleum releases in 23 hydro plants by 2009.	21 plants complete (program 91% complete).	Minimize the potential for petroleum releases in 2 plants by the end of 2009.	Pittman's Plant completed. Lockston Plant deferred to 2010.	Minimize the potential for petroleum releases in 2 plants by the end of 2009.	Gary Murray	Dec. 31, 2009		
<i>Generation Department Objective</i>								
Reduce the release of petroleum products into the environment originating from 23 power plants by 2009.	21 plants complete (program 91% complete).	Minimize the potential for petroleum releases in 2 plants by the end of 2009.	Pittman's Plant completed. Lockston Plant deferred to 2010.	Minimize the potential for petroleum releases in 2 plants by the end of 2009.	Gary Murray	Dec. 31, 2009		
<i>Generation Group Objective</i>								
Make improvements to 2 plants around oil and oil filled equipment by end of 2009.	Pittman's Plant completed. Lockston Plant deferred to 2010.	Make improvements at Lockston and Pittman's Plants by December 31, 2009.	Pittman's Plant completed. Lockston Plant deferred to 2010.	Make improvements at Lockston and Pittman's Plants by December 31, 2009.	Jennifer Williams	Dec. 31, 2009	Pittman's Plant completed. Lockston Plant deferred to 2010.	

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<b>PCB ELIMINATION</b>								
<b>Corporate Objectives</b>								
Eliminate all PCB contaminated oil filled distribution equipment in service by 2011. (87% of all feeders should be declared as having a PCB level less than 50 mg/kg by year end 2009).	244 feeders (79% of total feeders) declared as having a PCB level less than 50 mg/kg.	Eliminate PCB contaminated oil filled distribution equipment on 37 feeders (12% of total feeders) by December 31, 2009.	14 feeders (38% of 2009 target) declared as having a PCB level less than 50 mg/kg	Identify and remove PCB contaminated distribution equipment on 37 feeders by December 31, 2009.	Mike Jardine (Eastern) Scott Ainsworth (Western)	31-Dec-09		14 feeders declared as having a PCB level less than 50 mg/kg
Eliminate all PCB contaminated oil filled substation equipment in service by 2014. (87% of all of substations should be declared as having a PCB level less than 50 mg/kg by year end 2009).	114 substations (88% of total substations) declared as having a PCB level less than 50 mg/kg.	Eliminate PCB contaminated oil filled substation equipment from 3 substations (2% of total substations) by December 31, 2009.	4 substations (133% of 2009 target) declared as having a PCB level less than 50 mg/kg.	Identify and remove PCB contaminated substation equipment from 3 substations by December 31, 2009.	Sean LaCour	31-Dec-09		4 substations declared as having a PCB level less than 50 mg/kg.
<b>Eastern Area Objectives</b>								
Eliminate PCB contaminated oil filled distribution equipment in Eastern Region by December 31, 2011.	155 feeders (77% of Eastern feeders) declared as having a PCB level less than 50 mg/kg.	Ensure all oil filled equipment in the 20 identified feeders have oil concentrations of less than 50 mg/kg of PCBs by the end of 2009.	11 feeders (55% of 2009 target) declared as having a PCB level less than 50 mg/kg	(1) Identify all PCB contaminated distribution equipment on 20 feeders by the end of 2009. (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.	Peter Feehan Doug Chafe Barry Keating	31-Dec-09		11 feeders declared as having a PCB level less than 50 mg/kg
<b>Eastern Area Objectives</b>								
Eliminate PCB contaminated oil filled distribution equipment on 12 St. John's Area feeders by December 31, 2009.	76 feeders (69% of St. John's Area feeders) declared as having a PCB level less than 50 mg/kg	Ensure all oil filled equipment in the 12 identified feeders have oil concentrations of less than 50 mg/kg of PCBs by the end of 2009.	6 feeders (50% of 2009 target) declared as having a PCB level less than 50 mg/kg	(1) Identify all PCB contaminated distribution equipment on 12 feeders by the end of 2009. (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.	Peter Feehan	31-Dec-09		6 feeders declared as having a PCB level less than 50 mg/kg
Eliminate PCB contaminated oil filled distribution equipment on 5 Avalon Area feeders by December 31, 2009.	47 feeders (96% of Avalon Area feeders) declared as having a PCB level less than 50 mg/kg	Ensure all oil filled equipment in the 5 identified feeders have oil concentrations of less than 50 mg/kg of PCBs by the end of 2009.	3 feeders (60% of 2009 target) declared as having a PCB level less than 50 mg/kg	(1) Identify all PCB contaminated distribution equipment on 5 feeders by the end of 2009. (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.	Doug Chafe	31-Dec-09		3 feeders declared as having a PCB level less than 50 mg/kg

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Eliminate PCB contaminated oil filled distribution equipment on 3 Clarenville/Burin Area feeders by December 31, 2009.	32 feeders (80% of Clarenville/Burin Area feeders) declared as having a PCB level less than 50 mg/kg	Ensure all oil filled equipment in the 3 identified feeders have oil concentrations of less than 50 mg/kg of PCBs by the end of 2009.	2 feeders (67% of 2009 target) declared as having a PCB level less than 50 mg/kg	(1) Identify all PCB contaminated distribution equipment on 3 feeders by the end of 2009. (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.	Barry Keating	31-Dec-09	2 feeders declared as having a PCB level less than 50 mg/kg	
<b>Western Objective</b>								
Eliminate PCB contaminated oil filled distribution equipment in Western Region by December 31, 2011.	89 feeders (83% of Western feeders) declared as having a PCB level less than 50 mg/kg.	Ensure all oil filled equipment in the 17 identified feeders have oil concentrations of less than 50 mg/kg of PCBs by the end of 2009.	3 feeders (18% of 2009 target) declared as having a PCB level less than 50 mg/kg	(1) Identify all PCB contaminated oil filled distribution equipment on 17 feeders by the end of 2009. (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.	Bob Daye Carl Bishop Wayne Green	31-Dec-09	3 feeders declared as having a PCB level less than 50 mg/kg	
<b>Western Area Objectives</b>								
Eliminate PCB contaminated oil filled distribution equipment on 9 Grand Falls/Gander Area feeders by December 31, 2009.	46 feeders (78% of Grand Falls/Gander Area feeders) declared as having a PCB level less than 50 mg/kg	Ensure all oil filled equipment in the 9 identified feeders have oil concentrations of less than 50 mg/kg of PCBs by the end of 2009.	0 feeders (0% of 2009 target) declared as having a PCB level less than 50 mg/kg	(1) Identify all PCB contaminated oil filled distribution equipment on 9 feeders by the end of 2009. (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.	Bob Daye	31-Dec-09	0 feeders declared as having a PCB level less than 50 mg/kg	
Eliminate PCB contaminated oil filled distribution equipment on 8 Corner Brook Area feeders by December 31, 2009.	21 feeder (81% of Corner Brook Area feeders) declared as having a PCB level less than 50 mg/kg	Ensure all oil filled equipment in the 8 identified feeders have oil concentrations of less than 50 mg/kg of PCBs by the end of 2009.	3 feeder (38% of 2009 target) declared as having a PCB level less than 50 mg/kg	(1) Identify all PCB contaminated oil filled distribution equipment on 8 feeders by the end of 2009. (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.	Carl Bishop	31-Dec-09	3 feeders declared as having a PCB level of less than 50 mg/kg	
Eliminate PCB contaminated oil filled distribution equipment on Stephenville Area feeders by December 31, 2009.	All Stephenville Area feeders containing 50 mg/kg PCBs or more have been eliminated			All Stephenville area feeders containing 50 mg/kg PCBs or more have been eliminated				All S'ville area feeders containing 50 mg/kg PCBs or more have been eliminated

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<b>Engineering Department Objective</b>								
Eliminate PCB contaminated oil filled equipment located in substations by 2014 (87% of all equipment should have concentrations of less than 50 mg/kg by the end of 2009).	114 substations (88% of total substations) declared as having a PCB level less than 50 mg/kg	Ensure contaminated oil filled equipment in the 3 identified substations have oil concentrations of less than 50 mg/kg of PCBs by the end of 2009.	4 substations (133% of 2009 target) declared as having a PCB level less than 50 mg/kg.	(1) Identify all PCB contaminated oil filled electrical equipment from 3 substations by the end of 2009. (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.	Rick Spurrell	31-Dec-09	4 substations declared as having a PCB level less than 50 mg/kg.	
<b>Substation and Electrical Maintenance Group Objective</b>								
Eliminate PCB contaminated oil filled equipment located in 3 substations by December 31, 2009	114 substation (88% of all substations) declared as having a PCB level less than 50 mg/kg.	Ensure contaminated oil filled equipment in the 3 identified substations have oil concentrations of less than 50 mg/kg of PCBs by the end of 2009.	4 substations (133% of 2009 target) declared as having a PCB level less than 50 mg/kg.	(1) Identify all PCB contaminated oil filled electrical equipment from 3 substations by the end of 2009. (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.	Rick Spurrell	31-Dec-09	4 substations declared as having a PCB level less than 50 mg/kg.	
<b>SF6 MANAGEMENT</b>								
<b>Engineering Department Objective</b>								
Replace 12 Westinghouse / Siemens SF6 breakers by December 31, 2013. This replaces the prior SF6 Refurbishment Program where results were less than what had been expected.	5 breakers (42% of targeted breakers) has been replaced	Replace 4 Westinghouse / Siemens SF6 breakers by the end of 2009	5 breakers (125% of 2009 target) has been replaced	Replace 4 existing Westinghouse / Siemens SF6 breakers that have been identified as having a high potential to leak SF6 gas with new breakers.	Sean LaCour	31-Dec-09	5 breakers replaced	
<b>Maintenance Group Objective</b>								
Replace 4 Westinghouse / Siemens SF6 breakers by December 31, 2009. This replaces the prior SF6 Refurbishment Program.	5 breakers (125% of 2009 targeted breakers) has been replaced	Replace 4 Westinghouse / Siemens SF6 breakers by the end of 2009	5 breakers (125% of 2009 target) has been replaced	Replace 4 existing Westinghouse / Siemens SF6 breakers that have been identified as having a high potential to leak SF6 gas with new breakers.	Dave Manning	31-Dec-09	5 breakers replaced	

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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 (66% of targeted mini padmount transformers should be replaced by the end of 2009).	71 mini padmount transformers (71% of targeted mini pads) have been replaced	Replace 10 mini padmount transformers with stainless steel units by year end 2009	15 mini padmount transformer (150% of 2009 target) have been replaced	Replace 10 mild steel mini padmount transformers with stainless steel units by the end of 2009.	Peter Feehan	31-Dec-09	15 mini padmount transformers have been replaced	
<b>Stephenville Area Objective</b>								
Replace 7 mini padmount transformers in Stephenville Area with stainless steel by 2010 (57% of targeted mini padmount transformers should be replaced by the end of 2009.)	4 mini padmount transformers (57% of targeted mini padmounts) have been replaced	Replace 2 mini padmount transformers with stainless steel units by year end 2009	2 mini padmount transformers (100% of 2009 target) have been replaced	Replace 2 mild steel mini padmount transformers with stainless steel units by the end of 2009.	Wayne Green	31-Dec-09	2 mini padmount transformers have been replaced	
<b>Mercury Vapour Street Light Replacement Program</b>								
<b>Corporate Objective</b>								
Replace approximately 7,000 Mercury Vapour Street lights by December 31, 2011 that will result in a reduction of energy consumption and assist in the phase out of any remaining PCBs associated with street lighting fixtures	1229 mercury vapour street lights (18% of remaining mercury vapour street lights in service) have been replaced	Complete survey of location of remaining mercury vapour street lights and replace approximately 1,600 units by December 31, 2009.	Survey completed and 1229 mercury vapour street lights have been replaced	Complete street light survey and replace approximately 1,600 mercury vapour street lights by December 31, 2009	Mike Jardine Scott Ainsworth	31-Dec-09	1229 mercury vapour street lights have been replaced	
<b>Corporate Target</b>								
Replace approximately 1,600 mercury vapour street lights that will result in a reduction of energy consumption and assist in the phase out of any remaining PCBs associated with street lighting fixtures by December 31, 2009	1229 mercury vapour street lights (76% of 2009 target) have been replaced	Complete survey of location of remaining mercury vapour street lights and replace approximately 1,600 units by December 31, 2009.	Survey completed and 1229 mercury vapour street lights have been replaced	Complete street light survey and replace approximately 1,600 mercury vapour street lights by December 31, 2009	Kevin Green	31-Dec-09	1229 mercury vapour street lights have been replaced	