Q. Asset Management

The response to PUB-NLH-084 reported the terminal station equipment inspections, preventive maintenance (PM), and corrective maintenance (CM) work order backlogs, and the terminal station relay maintenance work order backlogs together and not separately. Provide, in tabular form, the number of terminal station Protective Relay Testing/Maintenance work orders scheduled for completion during each year, the number of relay work orders completed during each year, and the number of relay work orders scheduled to be completed during each year, but not completed by year's end (overdue/backlogged) for year's end 2011, 2012, and 2013.

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NLH-084 and an explanation of the content of Hydro's work orders in backlog.

The Table below summarizes the terminal station Protective Relay preventative maintenance (PM) work orders for 2011, 2012 and 2013.

Inspection/Testing (PM) Work Orders					
Year	Relay Equipment				
	Scheduled	Completed	Backlog of current & prior years as of September 2014		
2011	16	15	2		
2012	18	12	2		
2013	17	20	6		

The PM work orders include all P&C PM work orders in terminal stations. All PM work orders that are created from the CMMS in the calendar year are included in

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the "Scheduled" column. The "Completed" column contains the number of PMs completed in each year. The "Backlog" column contains the cumulative number of PMs that are still outstanding at the time the report was produced which in this case was September 28, 2014.

The following table summarizes the terminal station Protective Relay corrective maintenance (CM) work orders for 2011, 2012, and 2013.

Maintenance/Repair (CM) Work Orders					
	Relay Equipment				
Year	Ready to Complete	Completed	Backlog of current & prior years as of September 2014		
2011	5	5	0		
2012	11	6	1		
2013	51	55	6		

In 2013, the increase in work orders is mainly due to breaker exercising that was identified as a result of the January 2013 events.

The CM work orders include all P&C CM work orders in terminal stations such as adjusting relay settings that are fully planned and ready to be completed.

During 2014, Hydro is reducing the backlog. Since Hydro's response to PUB-NLH-084, in addition to executing and completing some of the work orders in the backlog, a review has been completed of the backlog resulting in the closing of any work orders that were duplicate, related to obsolete equipment or the work order is going to be addressed by a capital program.