ONTARIO POWER GENERATION

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REPORT OF EQUIPMENT IN-SERVICE: Capital Projects Only

Instructions: Forward completed and signed copy to your Controller. Controller to review and issue to Asset Management

Date 26-NOV-2019

Project / Asset Description	Project no.
D20 Storage and Drum Handling Faciltiy	16-31555

Approved Project Amount	Date of project release	Work order no. (if app.)	Project Management Group
$510,000,000 including Management Reserve	14-May-2013	N/A	Nuclear Projects

In-service amount previously reported	% of work completed this report	% of work completed LTD	Capital in-service amount of this report	date placed in-service	date ready for service
$174,637,565.00	52%	98%	$320,862,891.19	27-NOV-2019	27-NOV-2019

Site/Location Name:
Interim In-Service Transfer Credit Account (Controller)

• Super Asset Number (Controller)	001151
• Super Asset Description (Controller)	Refurb Darlington GS Common
• Asset Class (Controller)	15340000 (system) & 152000000 (Building)
• Life To Date Actual Expenditures	$501,907,166.68 (LTD to FW114, FW114 estimated)
• Description of key equipment installed including equipment code /SCI where applicable. Provide cost breakdown of key equipment.	HWMB West Annex Systems Available for Intended Use: • Telephone and LAN • Public Address • Breathing Air • 13.8kV Power • 600V Power • 120V Power • Lighting and Receptacles • Grounding • Cable Trays • UPS • Backup Generator • DCU4 Annunciations • Chilled Water • Domestic Water • Demin Water • Fire Water • Fire Detection Smoke Detectors • Instrument Air • Service Air • Building Structure Above 100 Elevation • Moderator • Heat Transport • TRF Feed and Product • Downgraded D2O • D2O Cleanup • Active Drainage • Inactive Drainage • Heating Steam, Condesate and Ventilation

*Associated with: Project Accounting and Reporting Procedure FIN-PROC-PA-013 and Fixed Asset Accounting, FIN-PROC-PA-005
** Revised March 2007

ONTARIO POWER GENERATION

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REPORT OF EQUIPMENT IN-SERVICE: Capital Projects Only

	• Stack Monitoring See NK38-CORR-38000-0798185 for related open items.
• Company Code / Business Area (Controller)	9807 / DNGS
• Description of equipment that was removed as part of this project (in-service year, asset name, asset number, date installed, and date removed). Complete Surplus Asset Declaration form. (See Supply Chain Website under Investment Recovery). • Removal costs	N/A

Authorized Plant		**Authorized – Project Manager**	
Electronically Approved	Date	Electronically Approved	Date
Director of Operations & Maintenance		D20 Project	7030897
BU	Phone #	BU	Phone #
Zar Khansaheb – [redacted]		Vincent Tzambazis - [redacted]	
Name (printed) & Empl #	Signature	Name (printed) & Empl. #	Signature
Hydroelectric or Fossil – Production /Plant Manager Nuclear – Station Director of Eng./Ops. & Mtce., OR attach AFS Form (N-FORM-10091-R006)		Project Manager	

Controller Review

Reviewed by:	Date:	Reviewed by:	Date:
Electronically Approved		Electronically Approved	
Brett Lemmon – Finance Controller Darlington		Shawn Klis – Finance Controller Projects & Modifications	
Station Controller		Controller for Project Organization (if applicable)	

*Associated with: Project Accounting and Reporting Procedure FIN-PROC-PA-013 and Fixed Asset Accounting, FIN-PROC-PA-005
** Revised March 2007

ONTARIO POWER GENERATION

MEMORANDUM

Internal Use Only

November 25, 2019

File No.: NK38-CORR-38000-0803042 LOF

Report of Equipment In Service (REIS) Submission Heavy Water Management Building – West Annex (HWMB-WA) - OPG Project 16-31555

Reference 1. Master EC's 88528, 118880, 119824, 118632, 122797, 123676

Reference 2. NK38-CORR-38000-0708271 – P#16-31555: List of ECs / AFS Turnover Strategies for the Heavy Water Management Building West Annex

Reference 3. NK38-CORR-38000-0670423 Overall Available for Service (AFS) Strategy for the Heavy Water Management Building West Annex

Reference 4. NK38-CORR-38000-0798185 Open Items from Heavy Water Management Building – West Annex (HWMB-WA) Turnover to Operations - OPG Project 16-31555

The purpose of this memorandum is to outline the Report of Equipment in Service (REIS) strategy and supporting narrative.

There have been two previous REIS documents submitted for this project. The last REIS that was submitted and approved in Dec 2016 declared $174M in service (cumulative). This REIS will declare approximately $324M which will bring the in service percentage to 98%.

Partial AFS will be declared which supports the project Substantial Completion for its Intended Use. The building is available to take and store the Moderator and Heat Transport water for the Unit 3 Refurbishment when needed. Key open items are documented in a memo (Ref #4) which support the strategy of allowing Operations to progress with the "Ensure Clean" program. The Partial AFS will turn over operations of the HWMB-WA to the extent that the D2O Process Systems are Construction Complete,, QC verified, leak-tight, and commissioning progressed to commence D2O system performance testing, i.e. receive light water for cycling and final validation of cleanliness and chemistry.

The required Building Electrical Services, Building Services Systems, Conventional Auxiliary Process Systems, and Radiological Auxiliary Process Systems will also be included in the Turnover, and also substantially complete.

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Internal Use Only
November 25, 2019
NK38-CORR-38000-0803042 LOF

Prepared by: Nov 25, 2019
Vince Tzambazis
Project Manager, HWMB-WA

Reviewed by: Nov 26th/19
Peter Simpson
Deputy VP
Refurbishment Execution

Accepted by: Nov 26/19
Zar Khansaheb
Director Operations &
Maintenance, DNGS