

1 **UNDERTAKING J2.6**
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4 **Undertaking**
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6 For Ex. D2-2-10, Tables 2 and Table 3, to provide updated final in service and cost
7 information, and to provide 2016 actuals for projects that are in-service.
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12 **Response**
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14 Attachments 1 and 2 provide the actual or current forecast in-service date and cost
15 information for the projects in Ex. D2-2-10 Tables 2 and 3, together with the Final In-
16 Service Date and Total Project Cost information as originally filed.

Numbers may not add due to rounding.

Attachment 1
 Updated Ex. D2-2-10 Table 2 per J2.6
Projects ≥ \$20M Total Project Cost¹

Line No.	Facility	Project Name	Project Number	Category	Start Date	Final In-Service Date (As Filed)	Forecast/Actual In-Service Date ⁴ (Updated)	Total Project Cost (As Filed) (\$M)	Forecast/Actual In-Service Amount (\$M) ⁴ (Updated)	Forecast/Actual OM&A Amount (\$M) ⁴ (Updated)	Forecast/Actual Total Project Cost (\$M) ⁴ (Updated)
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k) = (i) + (j)	
ONGOING PROJECTS FROM EB-2013-0321											
1	DN	Darlington Refurbishment - Unit Refurbishment - Unit 2	Various	Unit Refurb - Unit 2	2010	Feb-20	Feb-20 (F)	4,800.2	4800.2 (F)	0.0 (F)	4800.2 (F)
2	DN	R&FR - Tooling for Removal Activities	73112	Unit Refurb - Early In-service	Feb-12	May-16	Jun-16 (A)	87.0	88.1 (A)	0.0 (A)	88.1 (A)
3	DN	Heavy Water Storage Facility ²	31555	F&IP	Nov-06	May-17	TBD	381.1	TBD	TBD	TBD
4	DN	Water & Sewer Project ²	73802	F&IP	Jun-10	Nov-15	Oct-14 (A)	57.7	44.8 (A)	3.3 (A)	48.1 (A)
5	DN	Darlington Energy Complex ²	73803	F&IP	Mar-10	Jul-13	Jun-13 (A)	105.4	83.0 (A)	0.0 (A)	83.0 (A)
6	DN	Retube Feeder Replacement Island Support Annex ²	73810	F&IP	Sep-11	Oct-15	Mar-16 (A)	40.7	45.3 (A)	0.4 (A)	45.7 (A)
7	DN	Refurbishment Project Office ²	73815	F&IP	Sep-11	Jan-16	Sep-15 (A)	99.9	104.8 (A)	0.0 (A)	104.8 (A)
8	DN	Electrical Power Distribution System ²	73821	F&IP	Nov-10	Oct-15	Jul-15 (A)	20.8	20.1 (A)	0.2 (A)	20.3 (A)
9	DN	Third Emergency Power Generator ³	73360	SIO	Apr-12	Oct-16	Mar-17 (F)	120.4	139.6 (F)	0.4 (A)	140.0 (F)
10	DN	Containment Filtered Venting System ³	73365	SIO	Aug-13	Aug-16	Mar-17 (F)	80.3	101.0 (F)	0.0 (F)	101.0 (F)

Notes:

- 1 Projects with expenditures during Test Period OR In-Service Amounts in Bridge or Test Period.
- 2 For F&IP, columns (f) and (h) reflect approved Business Case Summary.
- 3 For SIO, columns (f) and (h) reflect approved Gate Progression Form or Change Control Form.
- 4 Forecast (F) and Actual (A) as at December 31, 2016 as noted in columns (g), (i), (j) and (k).

Numbers may not add due to rounding.

Attachment 2
 Updated Ex. D2-2-10 Table 3 per J2.6
 Projects \$5M - \$20M Total Project Cost¹

Line No.	Facility	Project Name	Project Number	Category	Project Description	Start Date	Final In-Service Date (As Filed)	Forecast/Actual In-Service Date ⁴ (Updated)	Total Project Cost (As Filed) (\$M)	Forecast/Actual In-Service Amount (\$M) ⁴ (Updated)	Forecast/Actual OM&A Amount (\$M) ⁴ (Updated)	Forecast/Actual Total Project Cost (\$M) ⁴ (Updated)
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l) = (j) + (k)	
ONGOING PROJECTS FROM EB-2013-0321												
1	DN	Fuel Handling - IFB Heat Exchanger Plate Replacement	73164	Unit Refurb - Early In-service	Replace the plate packs for all 8 heat exchangers of the irradiated fuel bay system to restore cooling capacity and mitigate margin management issue	Mar-14	Jul-15	Jul-15 (A)	6.4	6.3 (A)	0.0 (A)	6.3 (A)
2	DN	Balance of Plant - Negative Pressure Containment	73471	Unit Refurb - Early In-service	Provide a redundant monitoring capability in Unit 3 for negative pressure containment parameters used in three safety related systems	Apr-12	Oct-16	Nov-16 (A)	5.1	5.7 (A)	0.0 (A)	5.7 (A)
3	DN	Balance of Plant - Heavy Water Islanding Modifications	73472	Unit Refurb - Early In-service	Provide isolation valves and a redundant pressure relief path for the headers used to transfer moderator and primary heat transport heavy water between units and the heavy water processing facility	Apr-12	Aug-16	Oct-16 (A)	5.6	10.6 (A)	0.0 (A)	10.6 (A)
4	DN	Balance of Plant - Low Pressure Service Water	73514	Unit Refurb - Unit 2	Re-orient a valve to allow a hose connection to be attached as part of the low pressure service water temporary modifications during Unit 2 refurbishment	Oct-14	Feb-18	Feb-20 (F)	6.4	5.3 (F)	0.0 (F)	5.3 (F)
5	DN	GM Facility Interim Office Leasehold Improvements ²	73806 / 73814	F&IP	Make leasehold improvements for the Nuclear Refurbishment Interim Office Facility at 1908 Colonel Sam Drive "GM Facility" that will accommodate the Nuclear Refurbishment organization and some delegated support staff for the period between the fall of 2010 until the fall of 2013 when the Darlington Energy Complex is ready for use	Mar-10	Feb-20	Feb-20 (F)	9.3	10.2 (F)	0.0 (F)	10.2 (F)
6	DN	Vehicle Screening Facility ²	73817	F&IP	Build an extension to the vehicle screening infrastructure at the DNGS Sally Port to increase throughput of vehicles entering/exiting the Darlington Protected Area at the Sally Port from the refurbishment and Campus Plan projects	Jun-13	Oct-14	Oct-14 (A)	6.6	6.5 (A)	0.1 (A)	0.1 (A)
7	DN	Powerhouse Steam Venting System Improvements ³	73370	SIO	Increase nuclear safety margins by the addition of a second redundant control loop in the Powerhouse Steam Venting System initiation logic	Oct-12	Oct-15	Nov-15 (A)	5.6	5.7 (A)	0.0 (A)	5.7 (A)
8	DN	Shield Tank Overpressure Protection ³	73380	SIO	Install relief devices to the Shield Tank Cooling System in each Darlington Unit to prevent shield tank failure from overpressureization under Beyond Design Basis Accidents	Jan-13	Jul-17	Sep-17 (F)	13.5	32.7 (F)	0.0 (F)	32.7 (F)
9	DN	Emergency Service Water Buried Services ³	73398	SIO	Replace the buried Emergency Service Water Piping L6 due to extensive corrosive pitting observed during inspection	Jul-13	Nov-15	Oct-15 (A)	14.6	13.9 (A)	0.0 (A)	13.9 (A)

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