

Project Aggregation at Same POI

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Interconnection Planning Analysis

- Project Aggregation at the same Point of Interconnection (POI) was implemented to discourage project developers from subdividing projects to avoid the cost allocation thresholds and requirements.^{1 2}
- These subdivided projects go through the study process as separate projects, but a subset of these projects enter the final agreement phase with the plant ending up under a single GIA.
- Larger projects are unfairly allocated costs that should be shared with the aggregate of the subdivided projects.

1) [Manual 14H, Section 9.9 Multiple Request Behind the Same Point of Interconnection \(POI\)](#)

2) [PJM OATT, Part VIII, Subpart C, section 404.A.2.a.iii](#)

- **Applicability:** At this time, project aggregation is only being applied to the Generation Deliverability analysis and only includes projects within the cycle driving the need for a given reliability network upgrade.
- **Purpose:** For Generation Deliverability studies, project aggregation ensures that the total MW injection at a given bus is considered for cost allocation screening.
- **Method:** Project aggregation is computed per flowgate and accounts for the impacts of different contingencies as projects must be dispatched into the flowgate in order to be aggregated.

- For thermal impacts, a project's individual cost allocation will still be based on the individual project's MW impact NOT the aggregated MW impact.
- The aggregate of the MW impacts of new service requests sharing the same point of interconnection (POI) will be used for the purposes of screening those new service requests' total impact against PJM's cost allocation criteria.
- Project aggregation is done as a post-processing step and will not impact how projects are modeled in our queue base cases.

Cycle's Executive Summary Report

Shared POIs

At PJM's discretion, New Service Requests in a Cycle at the same POI of Interconnection may be aggregated for the purposes of Phase I, Phase II, and Phase III System Impact Studies, in accordance with PJM Open Access Transmission Tariff, Part VIII, Subpart C, section 404.2.a.iii.

Table 1: List of Shared POIs Studied in Transition Cycle #1 Phase II

Shared POI Name	New Service Requests Aggregated
AE1-155 115 kV - Dominion	AF2-120, AG1-536
AE2-185 69 kV - Dominion	AE2-185, AF2-404
AE2-187 69 kV - Dominion	AE2-187, AF2-403
AE2-313 500 kV - Dominion	AE2-313, AG1-449
AF1-294 115 kV - Dominion	AF1-294, AF2-115, AG1-021

AF1-323 138kV

AF2-037 230 kV

AF2-046 115 kV

AG1-146 115 kV

AG1-437 230 kV

Ahoskie 34.5 kV

Contributor

Flowgates Addressed by this Reinforcement	
Facility	Contingency
26RIDGWAY-AE2-113 TAP 115.0 kV Ckt 1 line	(Any)
26RIDGWAY-AE2-113 TP 115.0 kV Ckt 1 line	(Any)

New Ratings			
Facility	Rating Set	Rating Type	Rating Value
26RIDGWAY-AE2-113 TAP 115.0 kV Ckt 1 line	(All)	A	405.0 MVA
26RIDGWAY-AE2-113 TAP 115.0 kV Ckt 1 line	(All)	B	431.0 MVA
26RIDGWAY-AE2-113 TAP 115.0 kV Ckt 1 line	(All)	C	446.0 MVA
26RIDGWAY-AE2-113 TP 115.0 kV Ckt 1 line	(All)	A	405.0 MVA
26RIDGWAY-AE2-113 TP 115.0 kV Ckt 1 line	(All)	B	431.0 MVA
26RIDGWAY-AE2-113 TP 115.0 kV Ckt 1 line	(All)	C	446.0 MVA

Cost Allocation			
Project	MW Impact	Percent Allocation	Allocated Cost (\$USD)
AF2-412	9.3 MW	21.0%	\$14,706,123
AG1-389	5.8 MW	13.2%	\$9,200,226
AG1-390	5.8 MW	13.2%	\$9,200,226
AG1-391	11.6 MW	26.3%	\$18,400,453
AG1-392	11.6 MW	26.3%	\$18,400,453

Individual Report

5.8 MW 13.2% \$9,200,226

Gold 115kV yard: This project's cost allocation eligibility was based on the grouped impact of all New Service Requests which shared this POI within this cycle. The following project shared this POI:

AG1-389, AG1-390, AG1-391, AG1-392

5.8 MW 13.2% \$9,200,226

5.8 MW 13.2% \$9,200,226

11.6 MW 26.3% \$18,400,453

11.6 MW 26.3% \$18,400,453

System Reinforcement

Type	TO	RTEP ID / TO ID	Title	Total Cost (\$USD)	Allocated Cost (\$USD)	Time Estimate
Load Flow	PENELEC	n8229	Reconductor 18.7 miles the AE2-113 (Farmers Valley) - Ridgway 115 kV Line	\$69,977,482	\$9,200,226	31 to 33 Months

Presenter:

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