

Queue Scope

Tabular User Interface

"Take a Tour"

Prepared by: PJM System Planning As Of: 7/26/2024

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Tool Overview

Official Tool Name: Queue Scope Tabular UI

DESCRIPTION: The screening tool enables users to evaluate placement of future generators even before formally entering the PJM interconnection process. The tool screens potential points of interconnection (POI) on the PJM system by assessing grid impacts based on the amount of MW injection or withdrawal at a given POI.

Tool Functionality

- **Capabilities** Provides the ability to assess all types of generation (including batteries, pumped hydro, MTX)
 - Leverages stored results from PJM generator deliverability analysis
 - Provides facility loading impacts and headroom (MW) by POI

- 6000+ POI buses available to users within the PJM footprint
- Users have the option to run the analysis with a Transmission Planning case or Queue/Cycle Study case

- Limitations
- No short circuit, voltage or stability analysis. Thermal overloads are the typical constraint.
 - Currently limited to Summer Peak analysis. Future plans to include Light Load & Winter Peak analysis.



Tool Workflow Overview

DESCRIPTION:

The following workflow covers how a user will generally interact with the Queue Scope application to run the generator POI analysis.

Workflow Overview

- Disclaimer Notice
- Case Selection
- Generator Connection
- Transmission Owner
 - Operating Mode
 - Desired MW

 Points of Interconnection

Evaluation Results

Load by POI

Voltage

- Export to Excel



Disclaimer Notice

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Case Selection

- Tools W

Case * 💿		Case last updated
Select one	٠	
Lond Care Reat		

Evaluator

Queue Scope

The PJM Queue Scope tool ("Queue Scope") is intended to provide Interconnection Customers and other interested parties ("Users") with estimates of grid congestion at the given points of interconnection within the PJM footprint. Queue Scope is an informational tool and is not intended to be a substitute for actual interconnection studies conducted by PJM as part of the PJM interconnection process. Queue Scope results are not reflective of current PJM system conditions, and may not account for all study assumptions and considerations that would otherwise be considered in the formal interconnection study process. Queue Scope only addresses thermal impacts on the system and it does not include voltage, stability, or short circuit constraints. Queue Scope and the Queue Scope data is provided "as is" and PJIII hereby disclaims all warranties, whether express, implied, statutory, or otherwise, PJIII specifically disclaims all implied warranties of merchantability, fitness for a particular purpose, title, and non-infringement, and all warranties arising from course of dealing, usage, or trade practice. PJM makes no warranty of any kind that the data, or any products or rejults of its use, will meet Users or any other person's requirements, operate without interruption, achieve any intended result, be compatible or work with any software, system or other services or be secure, accurate, complete, free of harmful code, or error free. PJM may also from time to time update, supplement or delete the information, services and/or the resources contained in this website and reserves the right to make such changes without prior notification. In no event will PJM be tiable for any reason under any legal or equitable theory, including, but not limited to, breach of contract, tort (including negligence), strict liability, and otherwise, for any (a) consequential, incidental, indirect, exemplary, special, enhanced, or punitive damages, (b) increased costs, diminution in value, or lost business, production, revenues, or profits, (c) loss of goodwill or reputation, (d) use, inability to use, loss, interruption, delay, or recovery of any data or breach of data or system security, or (e) cost of replacement services, in each case regardless of whether User or any other persons were advised of the possibility of such losses or damages or such losses or damages were otherwise foreseeable. At any time, and for any lawful purpose, PJM may monitor; intercept, record and search any communications or data transiting or stored on Queue Scope. At PJI//s sole discretion, PJW may disclose pertinent information to the U.S. Government and its authorized representatives to protect the security of critical infrastructure and key resources, ensure information security, or to comply with any applicable law. regulation, legal process, or enforceable governmental request. Users expressly consent to the terms and conditions contained in this Disclaimer Notice. Users have no reasonable expectation of privacy regarding communications or data transiting or stored on Queue Scope. Unauthorized use of Queue Scope may be subject to criminal prosecution or civil proceedings.

I Disagree I Agree

Disclaimer Notice

(Guest) | Sign in Constant: | Hel

User is required to read and agree to the disclaimer notice before the user is granted the ability to load the application and run the screening analysis.

DISCLAIMER: User acknowledges that User has read, understands and agrees that User is bound by the terms of the Queue Scope Disclaimer Notice.

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Case Selection (cont.)

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Case Types

When selecting cases, the user has the option to select and load the results from a Transmission Planning Case (RTEP base case) or a Queue/Cycle study case.

RTEP Base Case

 Only contains generators that have fully executed interconnection agreements. This is the starting base case for the annual RTEP analysis and does not contain baseline upgrades later approved to address reliability violations identified in the given annual RTEP study.

Queue/Cycle Case

 Based on the RTEP base case and contains all active generators up through the queue/cycle under study. Includes the modeling of baseline upgrades with projected in-service dates up through the base case year. This case is used to conduct PJM's interconnection studies.





Case Last Updated

- This information is provided as soon as the user makes a case selection.
- The date time stamp is tied directly to when the results of the selected case were loaded into the application.

Load Case/Reset

- Once the user selects the "Load Case" button, the stored study results for the selected case are loaded within the application for use in the generator POI(s) analysis.
- The user always has the ability to select the "Reset" button at any time while running the application. This button will remove the selected case results and reset any other user-directed selections within the application. Once selected, the user will be prompted to select a new case.



Generator Connection

	My Tools V pim Queue Scope	 Voltage Level The user has the option to select a specific voltage level in the selected "Transmission Owner" area or the default or "All" will be used by the application.
	Case Selection Case * Case last updated 2025 RTEP Base Case (Summer Peak) O8/31/2022 12:35	 This selection allows the user to pre-filter the available buses for the generator POI analysis based on a given voltage level.
$\overline{\mathbf{v}}$	Load Case Reset Generator Connection Operating mode Desired M Transmission owner Voltage level Operating mode Desired M Select one All Injection Injection Points of interconnection Enderson Enderson Enderson	W * Maximum: 25
	Available Buses	Selected Buses
Tra •	nsmission Owner The user must select a Transmission Owner This selection pre-filters what "Available Bus	r area where the user desires to evaluate POIs. ses" are provided for the user to search and select for the generator POI analysis.

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Generator Connection (cont.)

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Case Selection Case Case (Summer Peak) Case last updated 2025 RTEP Base Case (Summer Peak) (08/31/2022 12:35) Load Case Reset Generator Connection Transmission owner Voltage level Operating mode Desired MW Select one All Comparison Desired MW Points of interconnection * No records found. K 0-0 of 0 records > >> K 0 records found. K 0-0 of 0 records > >> K 0 records found. K 0-0 of 0 records >>> K 0 records found. K 0 records found. K 0-0 of 0 records >>> K 0 records found. K 0 record	 Desired MW The user can enter the desired MWs of the generator to be evaluated at the selected POI buses. They can enter a range of desired MWs from 1 to 9,999 and only with whole numbers. Operating Mode The user has the option to select one of two modes for the generator analysis: "Injection" or "Withdrawal." "Injection" analysis is for typical generators that are injecting MWs into the PJM grid. "Withdrawal" analysis is specific to generators that have a load/withdrawal component and are pulling MWs from the PJM grid (e.g., batteries, pumped hydro, MTX).



Points of Interconnection

Generator Connection Transmission owner * Voltage level Operating mo	ode * Desired MW *	
Points of interconnection * Available Buses		Maximum: 25 Selected Buses
0523RD 138 kV (243235) 05ABINGD 138 kV (242533) 05ACADEM 138 kV (242950) 05ADAM 138 kV (243237) 05ADAMS 138 kV (243464) 05ADAMS1EQ 999 kV (246232) 05ADDISO 138 kV (243465) 05ADDISON8 138 kV (244938) 05ADDISONZ 138 kV (242951) 05AGAGAS 138 kV (245109) « < 1-10 of 1591 records > >> Submit Reset	No records found. (</td <td> Available Buses This is a pre-filtered list containing all of the available POI buses i the selected "Transmission Owner" area and the selected voltage level. The bus name contains: [Bus Name/Abbr.] + [Voltage] + [PSSE Bus #] Users can search for specific buses by bus name/abbreviation or the PSSE bus number if known. The # of records at the bottom indicates the total # of buses available for selection by the user. </td>	 Available Buses This is a pre-filtered list containing all of the available POI buses i the selected "Transmission Owner" area and the selected voltage level. The bus name contains: [Bus Name/Abbr.] + [Voltage] + [PSSE Bus #] Users can search for specific buses by bus name/abbreviation or the PSSE bus number if known. The # of records at the bottom indicates the total # of buses available for selection by the user.



Points of Interconnection (cont.)

Generator Connection Transmission owner * Voltage level Operating mode AEP All Injection Points of interconnection * *	Desired MW * 50	The user can select single or multiple POI buses in the "Available Buses" list and select the single arrow button to load the bus/buses into the "Selected Buses" accumulator.				
Available Buses	> Selected Buses					
0523RD 138 kV (243235) 05ABINGD 138 kV (242533) 05ACADEM 138 kV (242950) 05ADAM 138 kV (243237) 05ADAMS 138 kV (243464) 05ADAMS1EQ 999 kV (246232) 05ADDISO 138 kV (243465)	No records found. « «	All Available Buses Selection The user can select the double arrow button to load all the "Available Buses" into the "Selected Buses" accumulator.				
05ADDISONB 138 kV (244938) 05ADDISONZ 138 kV (242951) 05AGAGAS 138 kV (245109)						



Points of Interconnection (cont.)





Evaluation Results						
05ABINGD 138 kV (242533) 💌						Export: XLS
Transmission Facility 🗢 🔪	Contingency Type 🜲				Des Les 41-2 (21) 1 2	Dest Les d'es (%)
	All	Available (MW) 👻	DFax 👻	Impact (MW) 🗸	Pre-Loading (%) 🖡	Post-Loading (%) 👻
242947 05WATERFORD 345 242940 05MUSKNG 345 1	Single	0	0.026	1.30	118.61	118.74
242947 05WATERFORD 345 242940 05MUSKNG 345 1	Single	0	0.042	2.10	110.12	110.28
242947 05WATERFORD 345 242940 05MUSKNG 345 1	Breaker	0	0.042	2.10	107.99	108.15
242947 05WATERFORD 345 242940 05MUSKNG 345 1	Bus	35	0.026	1.30	97.35	97.45
242947 05WATERFORD 345 242940 05MUSKNG 345 1	Tower	58	0.028	1.40	95.60	95.71
Records Per Page: 5 V < 1-5 of 419 records > >>						
DISCLAIMER: User acknowledges that User has read, u	nderstands and agrees that User is bou	nd by the terms of the Queue Scope Disc	laimer Notice.			

14

POI Bus Drop Down

- The user can select between different POI buses that were analyzed by the application. These POI buses were loaded in the "Selected Buses" accumulator previously.
- The selected bus in the drop will load the entire table of results for viewing by the user.

Records

- The user has the ability to change how many records are displayed on a single page within the application.
- The total # of records generated by the application are for the given POI and the generator input parameters.



Evaluation Results (cont.)

Evaluation Results 05ABINGD 138 kV (242533) 💌 Export: XLS Transmission Facility 🖨 Contingency Type 🖨 Available (MW) 🖨 DFax 🖨 Impact (MW) 🚖 Pre-Loading (%) Post-Loading (%) 🖨 All × 242947 05WATERFORD 345 242940 05MUSKNG 345 1 Single 0 0.026 1.30 118.61 118.74 0 0.042 2.10 110.12 110.28 242947 05WATERFORD 345 242940 05MUSKNG 345 1 Single 242947 05WATERFORD 345 242940 05MUSKNG 345 1 0.042 2.10 107.99 108.15 Breaker 0 242947 05WATERFORD 345 242940 05MUSKNG 345 1 Bus 25 0.026 1.30 97.35 97.45 242947 05WATERFORD 345 24 5.71 **Record Components** 242605 05CLNCHR 138 242606 7.20 242928 05MARYSV 765 242939 2.92 Each record (also known as a flowgate) contains the following fields: 242605 05CLNCHR 138 242606 0.69 242639 05FLETCH 138 242801 0.31 Transmission Facility → the monitored transmission line, transformer, etc. 237081 AA2-121 TAP 345 2357 7.21 • **Contingency Type** \rightarrow the type of contingency event studied against the monitored transmission facility 242928 05MARYSV 765 242939 \$5.53 5.53 242928 05MARYSV 765 242939 • Available (MW) → the available headroom in MWs for the given transmission facility/contingency pair 242605 05CLNCHR 138 242606 86.60 237081 AA2-121 TAP 345 2357 34.20 247463 05SCANTO_XFL 345 24 3.63 • Impact (MW) \rightarrow the generator's impact on the transmission facility loading based on the selected POI and DFax 71 • **Pre-Loading** (%) \rightarrow the existing transmission facility loading prior to evaluating a new generator at the selected POI • Post-Loading (%) the estimated transmission facility loading after evaluating a new generator at the selected POI DISCLAIMER: User acknowledge

Evaluation Results – Transmission Facility

Evaluation Results						
05ABINGD 138 kV (242533) 💌	_					Export: XLS
Transmission Facility 🖨	Contingency Type 🜲		•		5	
	All	Available (MW) 🗧	DFax Ţ	Impact (MW) 🗧	Pre-Loading (%) ↓⊼	Post-Loading (%) Ţ
242947 05WATERFORD 345 242940 05MUSKNG 345 1	Single	0	0.026	1.30	118.61	118.74
242947 05WATERFORD 345 242940 05MUSKNG 345 1	Single	0	0.042	2.10	110.12	110.28
242947 05WATERFORD 345 242940 05MUSKNG 345 1	Breaker	0	0.042	2.10	107.99	= 108.15
242947 05WATERFORD 345 242940 05MUSKNG 345 1	Bus	35	0.026	1.30	97.35	97.45
242947 05WATERFORD 345 242940 05MUSKNG 345 1	Tower	58	0.028	1.40	95.60	95.71
242605 05CLNCHR 138 242606 05CLNLFD 138 1	Tower	14	0.115	5.75	95.35	97.20
242928 05MARYSV 765 242939 05MARYSV 345 2	Single	133	0.024	1.20	92.86	92.92
242605 05CLNCHR 138 242606 05CLNLED 138 1	Single	25	0.079	2 95	88.92	90.69

Transmission Facility

- The transmission facility is the monitored element for the studied contingency event and is associated directly to the selected POI bus for the generator analysis.
- These facilities are the typical transmission assets modeled in a PSSE case (transmission lines, transformers, etc.).
- The facility name is presented in the format of concatenated PSSE branch information as shown below: [PSSE From Bus #] + [PSSE From Bus Name/Abbr.] + [From Bus kV] + [PSSE To Bus #] + [PSSE To Bus Name/Abbr.] + [To Bus kV]
- The user has the ability to sort or use a text filter to search by bus name/abbr., bus #, voltage.

24263

23708

24292

24260 23708

24746 Z1

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Evaluation Results – Contingency Type

Evaluation Results						
05ABINGD 138 kV (242533) 🔻						Export: XLS
Transmission Facility 🖨	Contingency Type 🖨	Available (MW) 🖨	DFax 🖨	Impact (MW) 🖨	Pre-Loading (%) ↓∡	Post-Loading (%) 🖨
242947 05WATERFORD 345 242940 05MUSKNG 345 1	Single	0	0.026	1.30	118.61	118.74
242947 05WATERFORD 345 242940 05MUSKNG 345 1	Single	0	0.042	2.10	110.12	110.28
242947 05WATERFORD 345 242940 05MUSKNG 345 1	Breaker	0	0.042	2.10	107.99	108.15
242947 05WATERFORD 345 242940 05MUSKNG 345 1	Bus	35	0.026	1.30	97.35	97.45
242947 05WATERFORD 345 242940 05MUSKNG 345 1	Tower	58	0.028	1.40	95.60	95.71

Contingency Type

- The contingency type indicates what type of contingency event was studied that resulted in the Pre- and Post-Loading (%) values for the related transmission facility.
- The contingency events are broken into the following:
 - **Single** \rightarrow the outage of a single facility for a fault
 - **Breaker Breaker** (aka stuck breaker)
 - **Bus** \rightarrow a multiple facility outage due to a substation bus fault
 - Tower Tower a multiple facility outage based on criteria for the loss of transmission lines with common structures/right of way
- The user has the ability to sort or filter on the discrete contingency type

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24292

24292 24260

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Z1

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Evaluation Results – Available (MW)

Evaluation Results

05ABINGD 138 kV (242533) 💌

)
242947 05WATERFORD 345 242940 05MUSKNG 345	1
242947 05WATERFORD 345 242940 05MUSKNG 345	1
242947 05WATERFORD 345 242940 05MUSKNG 345	1
242947 05WATERFORD 345 242940 05MUSKNG 345	1
242947 05WATERFORD 345 242940 05MUSKNG 34	
242605 05CLNCHR 138 242606 05CLNLFD 138 1	
242928 05MARYSV 765 242939 05MARYSV 345 2	
242605 05CLNCHR 138 242606 05CLNLFD 138 1	
242639 05FLETCH 138 242801 05SKEGGS BRZ 138	
237081 AA2-121 TAP 345 235707 01WYLIE R 345	
242928 05MARYSV 765 242939 05MARYSV 345 2	
242928 05MARYSV 765 242939 05MARYSV 345 2	
242605 05CLNCHR 138 242606 05CLNLFD 138 1	
237081 AA2-121 TAP 345 235707 01WYLIE R 345	
247463 05SCANTO_XFL 345 242943 05SCANTO 34 Z1	

Transmission Facility 🖨

DISCLAIMER: User acknowledges that User has rea

Contingency Type 🗢	Available (MW) 🗢	DFax 🖨	Impact (MW) 🖨	Pre-Loading (%) ↓₹	Post-Loading (%) 🖨
Single	0	0.026	1.30	118.61	118.74
Single	0	0.042	2.10	110.12	110.28
Breaker	0	0.042	2.10	107.99	108.15
Bus	35	0.026	1.30	97.35	97.45

Available (MW)

- This is the existing available headroom in MWs for the flowgate (transmission facility/contingency pair) prior to placing a new generator at the selected POI bus.
- Essentially, this is the remaining availability on the transmission facility before the facility rating is exceeded (aka overloaded).
- For flowgates where the Pre-Loading (%) \geq 100.00%, the available MWs will always be zero.
- This is always expressed in a whole number value of MWs.
- Users have the ability to sort in ascending or descending order based on the available MW magnitude.

Export: XLS



Evaluation Results – DFax

Evaluation Results

05ABINGD 138 kV (242533) 💌

Transmission Facility 🖨	Contingency Type 🗢		DE			Deet Lee dies (%)
	All 🗸	Available (MW) 👻	Urax 🗸	impact (MW) 👻	Pre-Loading (%) ↓▲	Post-Loading (%) 👻
242947 05WATERFORD 345 242940 05MUSKNG 345 1	Single	0	0.026	1.30	118.61	= 118.74
242947 05WATERFORD 345 242940 05MUSKNG 345 1	Single	0	0.042	2.10	110.12	110.28
242947 05WATERFORD 345 242940 05MUSKNG 345 1	Breaker	0	0.042	2.10	107.99	108.15
242947 05WATERFORD 345 242940 05MUSKNG 345 1	Bus	25	0.026	1.30	97.35	97.45
242947 05WATERFORD 345 242940 05MUSKNG 345 1	Tower	58	0.028	1.40	95.60	95.71
242605 05CLNCHR 138 242606 05CLNLFD 138 1	Tower	• 14	0.115	5.75	95.35	97.20
242928 05MARYSV 765 242939 05MARYSV 345 2	Single	133	0.024	1.20	92.86	92.92
242605 05CLNCHR 138 242606 05CLNLFD 138 1	Single	25	0.079	3.95	88.92	90.69
242639 05FLETCH 138 242801 05SKEGGS BRZ 138 1						90.31
237081 AA2-121 TAP 345 235707 01WYLIE R 345 1	DFax (Distributio	n Factor)				87.21
242928 05MARYSV 765 242939 05MARYSV 345 2						85.53
242928 05MARYSV 765 242939 05MARYSV 345 2	 The generator dis 	stribution factor is fo	or the given flow	gate (transmiss	sion facility/conting	gency 85.53
242605 05CLNCHR 138 242606 05CLNLFD 138 1	nair) associated y	with the selected P() hus	0 (86.60
237081 AA2-121 TAP 345 235707 01WYLIE R 345 1						84.20
247463 05SCANTO_XFL 345 242943 05SCANTO 345 Z1	 This is a ratio of t 	he Impact MWs / D	esired MWs and	d is reported ou	it to three decima	places. 83.63
	 Users have the a 	bility to sort in asce	nding or descen	nding order bas	ed on the DFax v	alue.

DISCLAIMER: User acknowledges that User has read, understands and agrees that User is bound by the terms of the Queue Scope Disclaimer Notice.

Export: XLS



Evaluation Results – Impact (MW)

Evaluation 05ABINGD 13	Results 8 kV (242533) 💌							Export: XLS
	Transmission Facility 🖨	Contingency Type 🖨	Available (MW) 🖨	DFax 🖨	Impact (M	w) 🗢	Pre-Loading (%) 🗸	Post-Loading (%) 🖨
242947 05WA	TERFORD 345 242940 05MUSKNG 345 1	Single	0	0.026		1.30	= 118.61	118.74
242947 05WA	TERFORD 345 242940 05MUSKNG 345 1	Single	0	0.042		2.10	110.12	110.28
242947 05WA	TERFORD 345 242940 05MUSKNG 345 1	Breaker	0	0.042		2.10	107.99	= 108.15
242947 05WA	TERFORD 345 242940 05MUSKNG 345 1	Bus	35	0.026		1.30	97.35	97.45
242947 05WA	TERFORD 345 242940 05MUSKNG 345 1	Tower	58	0.028		1.40	95.60	95.71
242605 05CLN	ICHR 138 242606 05CLNLFD 138 1	Tower	14	0.115		5.75	95.35	97.20
242928 05MA	RYSV 765 242939 05MARYSV 345 2	Single	133	0.024		1.20	92.86	92.92
242605 05CLN	ICHR 138 242606 05CLNLFD 138 1	Single	25	0.079		3.95	88.92	90.69
242639 05FL							87.64	90.31
237081 AA2-	Impact (MW)						87.09	87.21
242928 05M4	This is the gape	rotor's optimated NANA	impact on the cooci	stad flawaata b	and an	the ee	85.47	85.53
242928 05M4	• This is the gene	rator s estimated www	impact on the associa	aled nowgale b	aseu on	ine ge	neralor 85.47	85.53
242605 05CL	connection input	t parameters and the f	lowgate DFax.				84.25	86.60
237081 AA2-			(0/)	1			84.08	84.20
247463 05SC Z1	• This impact is us	sed to derived the Pos	t-Loading (%) on the	transmission ta	acility.		83.49	83.63
	The MW impact	is reported out to two	decimal places.					
DISCLAIMER:	Users have the	ability to sort in ascend	ling or descending or	der based on t	he impac	ct MW	magnitude.	



Evaluation Results – Pre-Loading (%)

			100					
Evaluation	Results							
05ABINGD 1	38 kV (242533) 💌						Export: XLS	
	Transmission Facility 🖨	Contingency Type 🗢	Available (MW) 🖨	DFax 🖨	Impact (MW) 🖨	Pre-Loading (%) 🗸	Post-Loading (%) 🖨	
242947 05W/	TERFORD 345 242940 05MUSKNG 345 1	Single	0	0.026	1.30	118.61	118.74	
242947 05W/	TERFORD 345 242940 05MUSKNG 345 1	Single	0	0.042	2.10	110.12	110.28	
242947 05W/	TERFORD 345 242940 05MUSKNG 345 1	Breaker	0	0.042	2.10	107.99	108.15	
242947 05W/	TERFORD 345 242940 05MUSKNG 345 1	Bus	35	0.026	1.30	• 97.35	97.45	
242947 05WATERFORD 345 242940 05MUSKNG 345 1		Tower	58	0.028	1,40	95.60	95.71	
242605 05CLNCHR 138 242606 05CLNLFD 138 1		Tower	14	0.115	5.75	95.35	97.20	
242928 05MARYSV 765 242939 05MARYSV 345 2		Single	133	0.024	1.20	92.86	92.92	
242605 05CL							90.69	
^{242639 05FL} Pre-Loading (%)								
237081 AA2-	···• _••aa						87.21	
• This is the existing transmission facility loading for the given flowgate (transmission facility/contingency pair) prior to								
242928 05MA	$^{242928\ 05M4}$ evaluating a new generator at the selected POI bus. This loading is derived from the associated facility rating (MVA)							
242605 05CL	$_{\rm MSCL}$ = valualing a new generator at the selected FOI bus. This loading is derived norm the associated facility fatting (WVA).							
237081 AA2-	 The table of rec 	ords (flowgates) are pre-	-sorted in descendin	a order by the	Pre-Loading (%	%) to ensure the r	nost ^{84.20}	

- The table of records (flowgates) are pre-sorted in descending order by the Pre-Loading (%) to ensure the mos
 severely loaded transmission facilities are reported initially to the user.
 - The Pre-Loading (%) is always reported out to two decimal places and as a percentage.
- Users have the ability to sort in ascending or descending order based on the percentage magnitude.

247463 05SC

DISCLAIMER:

Z1

83.63



Evaluation Results – Post-Loading (%)

Evaluation Results						
05ABINGD 138 kV (242533) 💌						Export: XLS
Transmission Facility 🖨	Contingency Type 🖨	•				
	All	Available (MW) 🜩	DFax 🜩	Impact (MW) 🌩	Pre-Loading (%) 🗸	Post-Loading (%) 🌩
242947 05WATERFORD 345 242940 05MUSKNG 345 1	Single	0	0.026	1.30	= 118.61	118.74
242947 05WATERFORD 345 242940 05MUSKNG 345 1	Single	0	0.042	2.10	110.12	110.28
242947 05WATERFORD 345 242940 05MUSKNG 345 1	Breaker	0	0.042	2.10	107.99	108.15
242947 05WATERFORD 345 242940 05MUSKNG 345 1	Bus	35	0.026	1.30	97.35	97.45
242947 05WATERFORD 345 242940 05MUSKNG 345 1	Tower	58	0.028	1.40	95.60	95.71
242605 05CLNCHR 138 242606 05CLNLFD 138 1	Tower	14	0.115	5.75	95.35	97.20
242928 05MARYSV 765 242939 05MARYSV 345 2	Single	133	0.024	1.20	92.86	92.92
242605 05CLNCHR 138 242606 05CLNLFD 138 1	Single	25	0.079	3.95	88.92	90.69
24263					•	.31
²³⁷⁰⁸ Post-Loading (%)						.21
24292						.53

- This is the estimated transmission facility loading for the given flowgate (transmission facility/contingency pair) after evaluating a new generator at the selected POI bus. This loading is derived from the associated facility rating (MVA).
 - The Post-Loading (%) value is driven by the MW impact from the generator placed by the user at the selected POI bus.
 - The Post-Loading (%) is always reported out to two decimal places and as a percentage.
 - Users have the ability to sort in ascending or descending order based on the percentage magnitude.

24746

Z1

DISCLA

.53

.60

.20

.63



23708

24292 24292

24260 23708

24746

Z1

DISCLA

Export Evaluation Results

Evaluation Results						
05ABINGD 138 kV (242533) 💌						Export: XLS
Transmission Facility 🖨	Contingency Type 🔷	Available (MW) 🖨	DFax 🖨	Impact (MW) 🜲	Pre-Loading (%) ↓₹	Post-Loading (%) 🗢
242947 05WATERFORD 345 242940 05MUSKNG 345 1	Single	0	0.026	1.30	= 118.61	118.74
242947 05WATERFORD 345 242940 05MUSKNG 345 1	Single	0	0.042	2.10	110.12	110.28
242947 05WATERFORD 345 242940 05MUSKNG 345 1	Breaker	0	0.042	2.10	1 07.99	108.15
242947 05WATERFORD 345 242940 05MUSKNG 345 1	Bus	35	0.026	1.30	97.35	97.45
242947 05WATERFORD 345 242940 05MUSKNG 345 1	Tower	58	0.028	1.40	95.60	95.71
242605 05CLNCHR 138 242606 05CLNLFD 138 1	Tower	14	0.115	5.75	95.35	97.20
242928 05MARYSV 765 242939 05MARYSV 345 2	Single	133	0.024	1.20	92.86	92.92
242605 05CLNCHR 138 242606 05CLNLFD 138 1	Single	25	0.079	3.95	88.92	90.69
242630 0FFL FTCH 430 3 (2004 0FC/FC/CC DD7 430 4	n	24	0.400			

Export Results to Excel

- Once the evaluation results are loaded, the user can export the results for all selected POI buses to an excel file.
- The excel workbook will contain a separate sheet for each POI bus evaluation with the generation connection input parameters.

Note: The export capability is only available in the secure version of the application when users sign in via PJM Account Manager. Users will be prompted to read and acknowledge the tool disclaimer notice before the download will begin.