

Part 4 – DSASP Aggregations in DRIS Demand Response Information System (DRIS) Training for March 2013 Deployment

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Product Business Analyst New York Independent System Operator

Tuesday, March 5th, 2013 09:00 AM – 12:00 PM

Thursday, March 14th, 2013 01:00 PM – 04:00 PM

Web Ex - Rensselaer, NY



Training Topics

- Part 1: Introduction to DRIS
 - DRIS User Requirements
 - User Privileges
 - Access to DRIS
- Part 2: DSASP Overview
- Part 3: DSASP Resource Enrollment in DRIS
 - Export Enrollment File
 - Import DSASP Resources
 - **Resource Import Validations**
 - Manage Import Results
- Part 4: DSASP Aggregations in DRIS
 - View DSASP Aggregations and Resources
 - DSASP Resource Enrollment Statuses
- Manage DSASP Aggregations
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- Part 5: DSASP Resource **Registration for MIS**
 - Export DSASP Resource Report from DRIS
 - Submit DSASP Registration Report
 - Part 6: Submitted Aggregations in DRIS
 - View History of Submitted Aggregations
- Part 7: View DSASP Resource Enrollment in DRIS
- Part 8: Deployment
 - Additional Training Sessions
 - Deployment Activities



Prerequisites to DSASP Aggregation Management

- Prior to managing DSASP Aggregations in DRIS, Market Participants must have completed the following:
 - Successfully imported a capacity of 1MW or greater for the aggregation
 - Imports can be done incrementally for the aggregation, until 1 MW has been reached



Manage DSASP Aggregations

- DSASP Aggregation Management in DRIS consists of:
 - Viewing summary level information for the aggregation
 - Viewing detailed information for the individual Demand Side Resources within an aggregation
 - Selecting Demand Side Resources to add to a Qualified aggregation or update resources within a Qualified aggregation
 - De-Selecting Demand Side Resources to remove from a Qualified aggregation
 - Submitting Validated resources to become a Qualified aggregation



• From the DSASP Menu select Aggregation Management





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Search Criteria

- *MP*
 - Defaults to MP organization
- Aggregation
 - Defaults to All
 - Select an existing Aggregation
- Zone
 - Defaults to All
 - Select a specific Zone



 DSASP Aggregation Summary Details prior to the Aggregation becoming Qualified and participating in the market

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- MP Name
- Aggregation ID
- Zone
- Aggregation Type



 DSASP Aggregation Summary Details after the Aggregation is Qualified and participating in the market

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DSASP Resource Enrollment Statuses

- A DSASP Demand Side Resource and a DSASP Resource may have any one, or combination of, the following three Enrollment Statuses on the DSASP Aggregation Management screen
 - Validated
 - Demand Side Resources have been successfully imported and passed initial validation
 - Submitted
 - Demand Side Resources have been submitted for registration and exists in a frozen state while being processed by NYISO Member Relations
 - Qualified
 - Demand Side Resources now exist in an active DSASP Resource Aggregation which has passed all registration and testing requirements, the DSASP Resource is now ready to participate in the market

DSASP Resource Enrollment Statuses

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DSASP Resource Details

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Validated Resources

- A resource is Validated each time it has been successfully imported
 - Will always appear in Validated tab, if imported successfully

Validated & Qualified Resources Submitted Resources

- May appear: •
 - Checked •
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- View resource level details
 - Selection of a checkbox is not saved when navigating away from • this screen



Managing Resources

- Managing an aggregation prepares resources for Qualification
 - Select new resources to add to the aggregation
 - De-select existing resources to remove from aggregation
 - No selection required for updating existing resources in a Qualified aggregation
 - Select the Submit button to validate aggregation details and prepare the DSASP Resource Report
 - Submitted resources will be assigned an Enrollment Status of "Submitted"
 - The DSASP Resource Report must be submitted to the NYISO
 with the DSASP Resource Registration Packet





Validated Resources

- Once Validated, Resources may be selected for Submission to NYISO Member Relations as part of a DSASP Resource/Aggregation
 - Select Resources
 - Choose Submit to produce DSASP Resource Report

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	203622	Name 4	С	С	600	0	600	600	0
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DSASP Aggregation Validations

- Selecting to "Submit" will validate the resources at an Aggregate level
 - Resource Count
 - MW level
 - Change from previous
 - Cannot Submit if there is an "Active" Submission



Submitting Resources

Confirm Intent



Download DSASP Resource Report



Save DSASP Resource Report

Details of the Resource Report are in Section 5: DSASP Resource Registration for MIS

File Dov	vnload 🛛 🔀
Do you	want to open or save this file?
	Name: DSASP_Resource_Report_01-10-2013.xlsx Type: Microsoft Office Excel Worksheet From: pdwas21.nyiso.com Open Save Cancel
2	While files from the Internet can be useful, some files can potentially harm your computer. If you do not trust the source, do not open or save this file. <u>What's the risk?</u>



Submitted Resources

- A resource is viewable on the Submitted Tab once it has been successfully added to a Submittal
 - View resource level details
 - Once Submitted, the Aggregation cannot be modified and the resources which are part of the Submission cannot import changes
 - Will be viewable on the Submitted Tab until Submission of Aggregation has been approved or canceled

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DSASP Resource Details

- Submitted Resources
 - Resource ID
 - Resource Name
 - Zone
 - Response Type
 - Seasonal Loads
 - Seasonal Generation
 - Seasonal Ratings
 - Equivalent to Load plus Generation for Response Types B & G

		10	•	Equiva	lent to	Load	d Resp	onse Tv	vpe C	
Validated & Qi	ualified Resources	Subi	mitted Resource	s					, I	
Submitted R	esources: 01/30/	2013 0	9:50:09							
Resource ID	Resource Name	Zone	Response Type	Summer Subscribed Load(kW)	Summer Subscribed Gen(kW)	Summer Rating(kW)	Winter Subscribed Load(kW)	Winter Subscribed Gen(kW)	Winter Rating(kW)	
203595	Resource 1	С	С	301	0	301	300	0	300	
203597	Resource 3	С	С	400	0	400	400	0	400	
203600	Resource 5	С	С	100	0	100	80	0	80	
203602	Resource 7	С	С	400	0	400	320	0	320	
										Total count: 4 (#a) Exce
© 2009- 2013 Ne	ew York Independen	t System	Operator, All rights	reserved.						You are logged in as (Logg

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Submitted Resources

- Successfully Submitting an aggregation will update resources and initiate the following:
 - Resources will be assigned an Enrollment Status of "Submitted"
 - Resources will now appear on the "Submitted Resources" tab on the DSASP Aggregation Management Screen
 - Resources will be viewable on the Submitted Tab until Submission of Aggregation has been approved or canceled
 - DRIS will export a portion of the DSASP Registration Packet to the MP, the DSASP Resource Report
 - Aggregation will be viewable on the DSASP Submittals Screen
 - DSASP Resource Report can be manually generated from this screen
 - Once an aggregation has been Submitted, changes may not be made to resources or aggregation without first contacting NYISO Stakeholder Services



Qualified Resources

2	Building	NEW YORK INDEPENDE SYSTEM OP The Energy Markets	ENT ERATOR	orrowToda	Demai DSASF	nd Res PAggreg	s ponse ation Mana	Inform agement	ation Syst	em						
Main 🖣	MP - Re	esource - SCR -	Perform	ance Factor	s 🔹 DR Event 👻	Mitigation -	Tables - N	otification 👻 🛛)SASP -							
MP	Name:	Market Partici	pant	✓ Ag	gregation: 100	0	✓ Zone:	`	Display							
DSAS	P Aggregati	ion Management														
MP			Aggre	gation ID Zo	Aggregation Type	Resource Count	Gen PTID	Product Type	Summer Subscribed Load(MW)	Summer Subscribed Gen(MW)	Summer Rating(MW)	Winter Subscriber Load(MW)	d Winter Subscribed Gen(MW)	d Winter Rating(MW)	Direct Communication	n
	Marke	et Participant	1000	C	3 - Group	4	24188	Non - Synchr	1.2	0	1.2	1.1	0	1.1	Υ	
Vali	dated & Qua	alified Resources	Subm	nitted Resour	ces									T	otal count: 1	≊a] Exce
Vali Vali	dated & Qua dated Resou	alified Resources	Subm	nitted Resour	ces				Qualified	Resources: 01/30/	2013 09:12	2:10		Т	otal count: 1 🖡	a Exce
Vali Vali	dated & Qua dated Resou Resource ID	alified Resources urces Resource Name	Subm	nitted Resour	ces Type Summer S Load(kW)	ubscribed S	Summer Subscr Sen(KW)	ibed Summer Rating(kV	V) Li Resource	Resources: 01/30/	2013 09:12	2:10 Vesponse Type Sui	mmer Subscribed Su ad(kW) Ge	Ti Jmmer Subscribe en(KW)	otal count: 1	Winte Load
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Vali	dated & Qua dated Resource ID 203595 203596	alified Resources urces Resource Name Resource 1 Resource 2	Zone C C	Response C	Type Summer S Load(KVV) 301 100	ubscribed S 0 0	Summer Subscr Sen(kW))	ibed Summer Rating(KV 301 100	V) W 203595 11 203597	Resources: 01/30/ ID Resource Name Resource 1 Resource 3	Zone F C C	L:10 Surant kesponse Type Surant : 30' : 400'	mmer Subscribed ad(kW) Ge 1 0 0 0	Ti ummer Subscribe en(kW)	d Summer Rating(KW) 301 400	Winte Load 300
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Qualified Resources

- A Resource has become Qualified when the Aggregation it belongs to has:
 - Finalized the registration process through Member Relations
 - Successfully completed a communications test
 - Direct Communication, or
 - Through Transmission Owner
 - Successfully completed the appropriate pre-qualification test

-15		RK IDENT OPERATOR	rrowToday	Deman DSASP	d Response Aggregation Ma	e <i>Informatio</i> nagement	n Syster	m							Qualified I	Resources: 01/30/2	013 09	:12:10				
Main • MP • R MP Name:	source • SCR Market Part	 Performe icipant 	Aggreg:	DR Event • Ition: 1000	Mitigation • Tables •	Notification • DSASP	• Display								Resource I	D Resource Name	Zone	Response Type	Summer Subscribed Load(kW)	Summer Subscribed Gen(kW)	Summer Rating(kW)	Win Loa
DSASP Aggrega	on Manageme	nt Aggreg	ation ID Zone	Aggregation	Resource Gen PTID	Product Type Summ	er Subscribed Su	ummer Subsc	cribed Summe Rating(er Winter S	Subscribed Winter	Subscribed Wint	ter Direct	cation	203595	Resource 1	С	С	301	0	301	300
Mark	et Participan	t 1000	С	3 - Group	4 24188	Non - Synchr 1.2	0		1.2	1.1	0	1.1	Y		203597	Resource 3	С	С	400	0	400	400
															203600	Resource 5	С	С	100	0	100	80
															203602	Resource 7	С	С	400	0	400	320
Validated & Qu Validated Reso	lified Resourc	s Submi	tted Resources				Qualified Re	esources: 01	1/30/2013 0	9:12:10			Total count:	1 Ru Excel								
Resource ID	Resource Nar	e Zone	Response Type	Summer Su Load(kW)	bscribed Summer Subs Gen(KIV)	cribed Summer Rating(KW)	Resource ID	Resource	Name Zone	e Response T	ype Summer Subi Load(kW)	scribed Summer S Gen(kW)	Subscribed Summe Rating(r Winter kW) Load(
203595	Resource	1 0	c	301	0	301	203595	Resou	rce 1 C	c	301	0	301	300								
203590	Resource	2 0	с С	100	0	100	203597	Resour	rce 3 C	0	400	0	400	400								
203389	Resource	4 0	c.	615	0	615	203602	Resour	rce7 C	c	400	0	400	320								
203800	Resource	5 C	c	100	0	100		110000							<							
203601	Resource	6 C	с	400	0	400															_	
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9 2009- 2013 New 1	ork Independent 1	ystem Opera	tor. All rights rese	ved.								TO	iu are logged in as	0.0204								



DSASP Resource Details

- Qualified Resources
 - Resource ID
 - Resource Name
 - Zone
 - Response Type

- Seasonal Loads
- Seasonal Generation
- Seasonal Ratings
 - Equivalent to Load plus Generation for Response Types B & G
 - Equivalent to Load Response Type

Qualified Res	ources: 01/30/2	013 09:	12:10				
Resource ID	Resource Name	Zone	Response Type	Summer Subscribed Load(kW)	Summer Subscribed Gen(kW)	Summer Rating(kW)	Winter Load(k
203595	Resource 1	С	С	301	0	301	300
203597	Resource 3	С	С	400	0	400	400
203600	Resource 5	С	C	100	0	100	80
203602	Resource 7	С	с	400	0	400	320
<					Tot	al count: 4 🖷 a	Excel
					You are logged	l in as	(Logoi

View Validated Resource Details of Qualified Resource

- "Checked" Resources
 - A Validated resource will appear checked when:
 - The check box is selected and
 - A resource is part of a current Submittal and/or
 - A resource is part of a Qualified Aggregation

Val	lidated Resour	rces							
V	Resource ID	Resource Name	Zone	Response Type	Summer Subscribed Load(kW)	Summer Subscribed Gen(kW)	Summer Rating(kW)	Winter Subscribed Load(kW)	V G
	203619	Name 1	С	С	800	0	800	800	0
V	203622	Name 4	С	С	600	0	600	600	0

Highlighted Resources

- A Validated resource will appear highlighted when:
 - Both a Validated and Qualified record exist for a resource when one or more resource details do not match

Rows default to checked if an active Submitted or Qualified record exists.

Row with a Validated record that is different from the Qualified record of the resource.



View Qualified DSASP Resource

Building	NEW YORK INDEPENDE SYSTEM OP The Energy Markets	ERATOR Of Tomo	orrowTo	L day	Deman	d Re Aggreg	S PONSE ation Mana	Informa agement	atior	n Syste	em						
in ▼ MP ▼ Res	source - SCR -	Performa	ance Fac	tors 🕶 I	DR Event 👻 I	Mitigation •	Tables - N	Notification - D	SASP -								
MP Name:	Market Partici	pant	~	Aggrega	ation: 1000		✓ Zone:	~		Display							
ASP Aggregatio	on Management																
		Aggreg	ation ID	Zone	Aggregation Type	Resource Count	Gen PTID	Product Type	Summer Load(M	r Subscribed W)	Summer Subscribed Gen(MW)	Summer Rating(MW	Winter Subscrib) Load(MW)	ed Winter Subscribe Gen(MW)	ed Winter Rating(MW)	Direct Communication	1
Market	t Participant	1000		С	3 - Group	4	24188	Non - Synchr	1.2		0	1.2	1.1	0	1.1	Υ	
alidated & Quali	lified Resources	Submi	itted Res	ources						-					T	otal count: 1	B) F
alidated & Qual	lified Resources	Submi	itted Res	ources						Qualified	Resources: 01/30/	2013 09:1	2:10		т	otal count: 1	≊a] F
alidated & Qual alidated Resour	lified Resources rces Resource Name	Submi Zone	itted Resi Respons	ources se Type	Summer Sul Load(kW)	bscribed (Summer Subscr Gen(kW)	ribed Summer Rating(kW	/) Lo	Qualified Resource	Resources: 01/30/	2013 09:1	2:10 Response Type S	ummer Subscribed 5 oad(kW) (Ti Summer Subscribe Sen(kW)	d Summer Rating(kW)	W
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DRAFT – FOR DISCUSSION PURPOSES ONLY 26



Validated Resources

Removing selected resources

- Un-Check resources you have selected to remove from the aggregation
- Once finalized, Choose Submit
- Follow registration process to update DSASP Resource with Member Relations

Va	lidated & Qual	ified Resources	Subn	nitted Resources					
Va	lidated Resou	rces							
	Resource ID	Resource Name	Zone	Response Type	Summer Subscribed Load(kW)	Summer Subscribed Gen(kW)	Summer Rating(kW)	Winter Subscribed Load(kW)	Winter Subscr Gen(kW)
	203619	Name 1	С	С	800	0	800	800	0
	203622	Name 4	С	С	600	0	600	600	0
	•								
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							Total count	2 Submit Legen	d 🔻 📲 a] Excel

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DSASP Resource Details

-	NEW YORK INDEPENDE SYSTEM OPI ng The Energy Market	ERATOR	oday	Deman DSASP	d Res Aggrega	ponse tion Mana	Inform agement	atior	n Syste	em						
Main 🔻 MP 🔻 F	Resource - SCR -	Performance Fa	ctors 🔹	DR Event 🔹 1	Mitigation 👻	Tables - N	lotification 👻 [DSASP -								
MP Name: 👖	∕larket Particip	oant 👻	Aggreg	ation:	~	Zone:	•	-	Display							
DSASP Aggrega	tion Management															
MP		Aggregation ID	Zone	Aggregation	Resource	Gen PTID	Product Type	Summer	r Subscribed	Summer Subscribed	Summer	Winter Subscribed	Winter Subscribed	Winter	Direct	
Market E	Participant	1000		Type	Count			Load(M	W)	Gen(MW)	Rating(MW)	Load(MW)	Gen(MW)	Rating(MW)	Communicatio	on
Market F	Participant	1000	F	2 - Group 2 - Group												
Market F	Participant	1002	J	3 - Group												
Market F	Participant	1003	Е	1 - Individual												
	D	ownlo	ad S	Sumn	nary	Grid	Detai	ils						-		
Validated & Qu	ualified Resources	OWNIO	ad sources	Sumn	nary	Grid	Detai	ils 1							Total count: 4	a Excel
Validated & Qu	ualified Resources	OWNIO	ad sources	Sumn	nary	Grid	Detai		Qualified	Resources					Total count: 4	Ra Excel
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The New York Independent System Operator (NYISO) is a not-for-profit corporation responsible for operating the state's bulk electricity grid, administering New York's competitive wholesale electricity markets, conducting comprehensive long-term planning for the state's electric power system, and advancing the technological infrastructure of the electric system serving the Empire State.



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