

Part 5 – Provisional ACL
Demand Response Information
System (DRIS) Training for
September 2011 Deployment

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New York Independent System Operator

Tuesday, August 30, 2011 10:00 am – 2:00 pm

Wednesday, September 2011 10:00 am – 2:00 pm

Rensselaer, NY

Training Topics

- ◆ Part 1: Introduction to DRIS
 - *DRIS User Requirements*
 - *User Privileges*
 - *Access to DRIS*
 - *Additional Tools*
- ◆ Part 2: Updates to Existing DRIS Functionality
- ◆ Part 3: Background of SCR Baseline Implementation
- ◆ Part 4: Resource ACL
 - *SCR Load Zone Peak Hours*
 - *TO Add-back Hours*
 - *Enrollment with ACL*
 - *Summer 2011 ACL Verification*
- ◆ Part 5: Provisional ACL
 - *Enrollment with Provisional ACL*
 - *Provisional ACL Verification*
 - *Provisional ACL Deficiency*
- ◆ Part 6: RIP Deficiency
 - *Timeline*
 - *Calculation*
- ◆ Part 7: Aggregation PF
 - *Timeline*
 - *MP PF and SCR Program PF*
- ◆ Part 8: Deployment
 - *Additional Training Sessions*
 - *Deployment Activities*

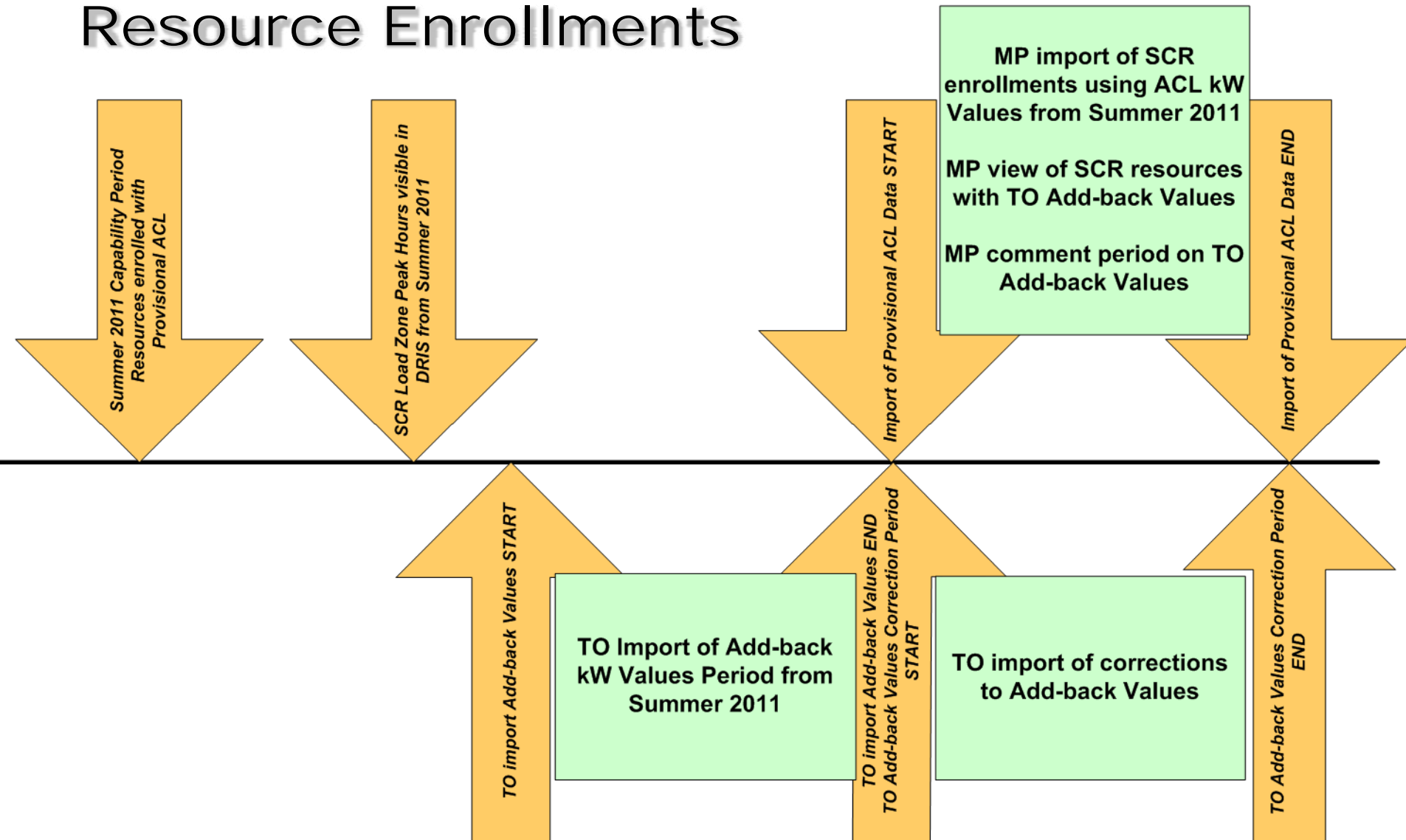
Provisional ACL

- ◆ Timeline
- ◆ Resource Enrollment with Provisional ACL
- ◆ Reporting of Provisional ACL Data for Verification
 - *View SCR Load Zone Peak Hours (see Training Section 4 slides 5-9)*
 - *Export of Provisional ACL Verification Template*
 - *Import Provisional ACL Verification Template*
- ◆ Calculation of Resource Provisional ACL Deficiency
- ◆ View Resource Provisional ACL Verification Data and Deficiency kW
 - *View TO Add-back Values*
 - *Changes to TO Add-back Values*
- ◆ Resource Enrollment with Provisional ACL in the following Equivalent Capability Period

Timeline for Summer 2011 Resources Enrolled with a Provisional ACL

- ◆ Enroll Resource with Provisional ACL
- ◆ View Top 40 Hours in DRIS
 - *90 days prior to start of next Equivalent Capability Period*
 - *See Training Section 4 slides 5-9*
- ◆ TO import of TO Add-back Values
- ◆ MP import of Provisional ACL Verification Data
 - *Provisional ACL Deficiency Calculated*
- ◆ MP comment on TO Add-back Values
 - *MP must work directly with TO for any updates to a resource TO Add-back value*
 - *A change to a TO Add-back value will result in recalculating the Provisional ACL Deficiency*

Timeline for Summer 2011 Provisional Resource Enrollments



Resource Enrollment with Provisional ACL

- ◆ A resource is permitted to use a Provisional ACL when it has never had interval metering data and has not previously been enrolled in the SCR program
- ◆ A resource can only be enrolled with a Provisional ACL for up to 3 consecutive Capability Periods
- ◆ The resource Provisional ACL kW value is based on the MP's forecast of the ACL for the Capability Period and must remain the same for the duration of the enrollment in the Capability Period

Resource Enrollment with Provisional ACL

- ◆ A resource enrolled using a Provisional ACL cannot change MPs during the Capability Period
- ◆ The Provisional ACL for a resource cannot be changed during the Capability Period in which the resource is enrolled
- ◆ Following the Capability Period for which a resource with a Provisional ACL was enrolled, the MP will be required to provide the data necessary to compute the ACL from metered interval data

Changes to SCR Enrollment Import File for Resources with a Provisional ACL kW

- ◆ Provisional ACL field
 - *Enter Y or N to indicate a resource is or is not being enrolled with a Provisional ACL*

- ◆ Enter the resource Provisional ACL kW value in the first ACL kW for Peak Load Date Hour 1 field
 - *Leave all other ACL kW fields blank*

Changes to SCR Enrollment Import File for Resources with a Provisional ACL kW

- ◆ Meter Installation Date
 - *Required for resources enrolling with a Provisional ACL*
 - *Must be less than or equal to the system date*
 - Cannot be a future date
 - *Can only be changed by MP up to the close of the first month of enrollment for that resource, then in all subsequent months, a change is sent to a pending enrollment request*
 - *The same Meter Installation Date must be used by each MP that enrolls that resource with a Provisional ACL in a subsequent Capability Period*

Changes to SCR Enrollment Import File for Resources with a Provisional ACL kW

◆ Meter Installation Date

- *Determines start date of SCR Load Zone Peak Hours to be reported for Provisional ACL Data Verification*
- *Each SCR Load Zone Peak Hour from the Meter Installation Date onward must be reported for the resource when reporting Provisional ACL Verification Data*
- *Resources with a Meter Installation Date which requires reporting of all Top 40 Peak Hours for the Capability Period will not have the ability to enroll with a Provisional ACL in the next Equivalent Capability Period*
 - Resource may only enroll with a Provisional ACL in 2 Capability Periods

Meter Installation Date for Summer 2011 Resources Enrolled with a Provisional ACL

- ◆ The Meter Installation Date will be set to the date that the resource was approved for enrollment in DRIS for the Capability Period

- ◆ This date will be one of two dates:
 - *The date the resource was imported into DRIS, met all required validations and was immediately Enrolled, or*
 - *The date the resource Pending request was approved by the NYISO*

SCR Enrollment Import File with Provisional ACL fields

Effective Date=11/01/2011&
Program=SCR&

Resource ID	Resource Name	TO Account Num	Zone	Transmission Owner Abbreviation	Street	Street 2	City	State	Zip Code
6003100	Resource One	T49930827	J	NYP	219 Some Street		Some City	NY	10036
6203339	Resource Two	T399302203	J	CEC	41 Another Street		Another City	NY	10305
7209628	Resource Three	T703395030	J	CEC	56 General Road		Far City	NY	10458

TO Service Voltage	Generator Type ID	Generator Name Plate Rating	CEL Method	Compliance Question	Aggregation ID	Response Type	Subscribed Load	Subscribed Gen	Shutdown kW
1			A		9340	C	100	0	0
2			A		8744	C	240	0	0
3	1	8000	A	Y	9340	B	0	100	0

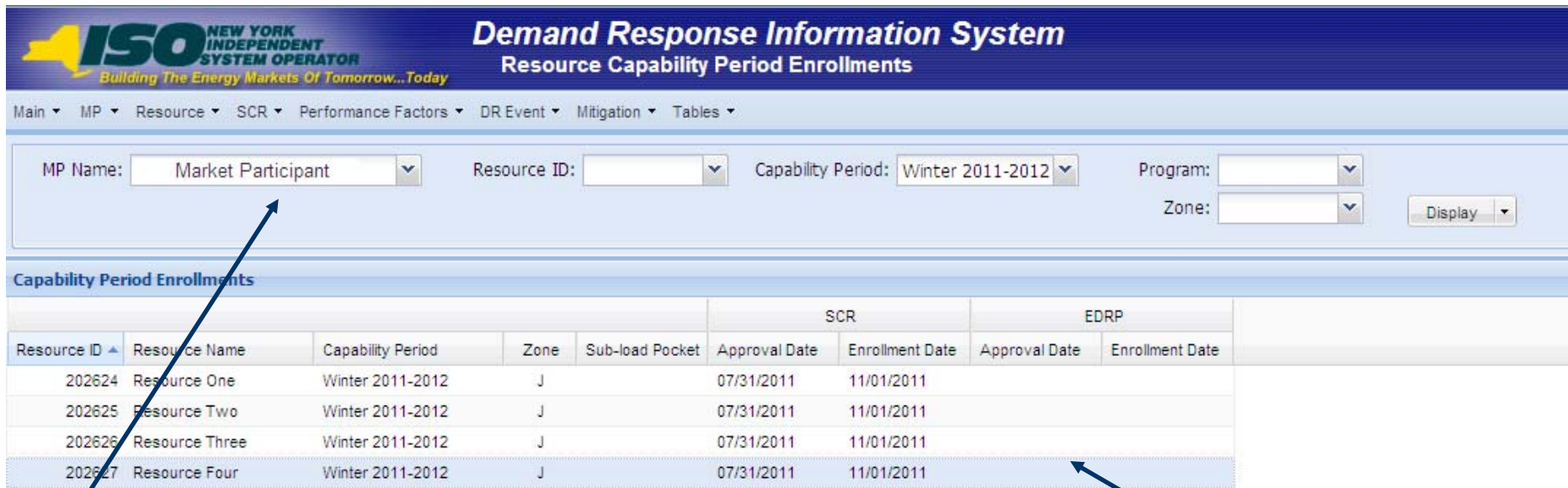
- Indicate Provisional ACL Question as “Y” or “N”
- Enter the Meter Installation Date
- Enter the Provisional ACL kW value in the first ACL kW for Peak Load Date Hour 1 field

Provisional ACL Question	Meter Installation Date	ACL kW for Peak Load Date Hour 1 12/14/2010 17:00:00 PM	ACL kW for Peak Load Date Hour 2 12/14/2010 18:00:00 PM	ACL kW for Peak Load Date Hour n 8/16/2010 13:00:00 PM
Y	09/05/11	3816		
N		1100	1300	900
N		809	850	980

View Provisional ACL Enrollment Details



From the DRIS menu select Resource and then Capability Period Enrollments



Demand Response Information System
Resource Capability Period Enrollments

Main ▾ MP ▾ Resource ▾ SCR ▾ Performance Factors ▾ DR Event ▾ Mitigation ▾ Tables ▾

MP Name: Resource ID: Capability Period: Program: Zone:

Capability Period Enrollments

Resource ID	Resource Name	Capability Period	Zone	Sub-load Pocket	SCR		EDRP	
					Approval Date	Enrollment Date	Approval Date	Enrollment Date
202624	Resource One	Winter 2011-2012	J		07/31/2011	11/01/2011		
202625	Resource Two	Winter 2011-2012	J		07/31/2011	11/01/2011		
202626	Resource Three	Winter 2011-2012	J		07/31/2011	11/01/2011		
202627	Resource Four	Winter 2011-2012	J		07/31/2011	11/01/2011		

Enter search criteria, click “Display” and then highlight a resource in the Capability Period Enrollments section of the screen

View Provisional ACL Enrollment Details

- ◆ Provisional ACL kW: SCR Tab and ACL Details Tab
- ◆ Provisional ACL Question: SCR Tab
- ◆ Meter Installation Date: Resource Details

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Resource Capability Period Enrollments

Main ▾ MP ▾ Resource ▾ SCR ▾ Performance Factors ▾ DR Event ▾ Mitigation ▾ Tables ▾

MP Name: Resource ID: Capability Period: Program: Zone:

Capability Period Enrollments

Resource ID	Resource Name	Capability Period	Zone	Sub-load Pocket	SCR		EDRP	
					Approval Date	Enrollment Date	Approval Date	Enrollment Date
202624	Resource One	Winter 2011-2012	J		07/31/2011	11/01/2011		
202625	Resource Two	Winter 2011-2012	J		07/31/2011	11/01/2011		
202626	Resource Three	Winter 2011-2012	J		07/31/2011	11/01/2011		
202627	Resource Four	Winter 2011-2012	J		07/31/2011	11/01/2011		

Page 1 of 1 Displaying 1 - 4 of 4 Monthly Enrollment

Resource Details

Resource ID: 202627
Resource Name: Resource Four
TO Account Number: T7547547657
Transmission Owner: NYP
Zone: 1

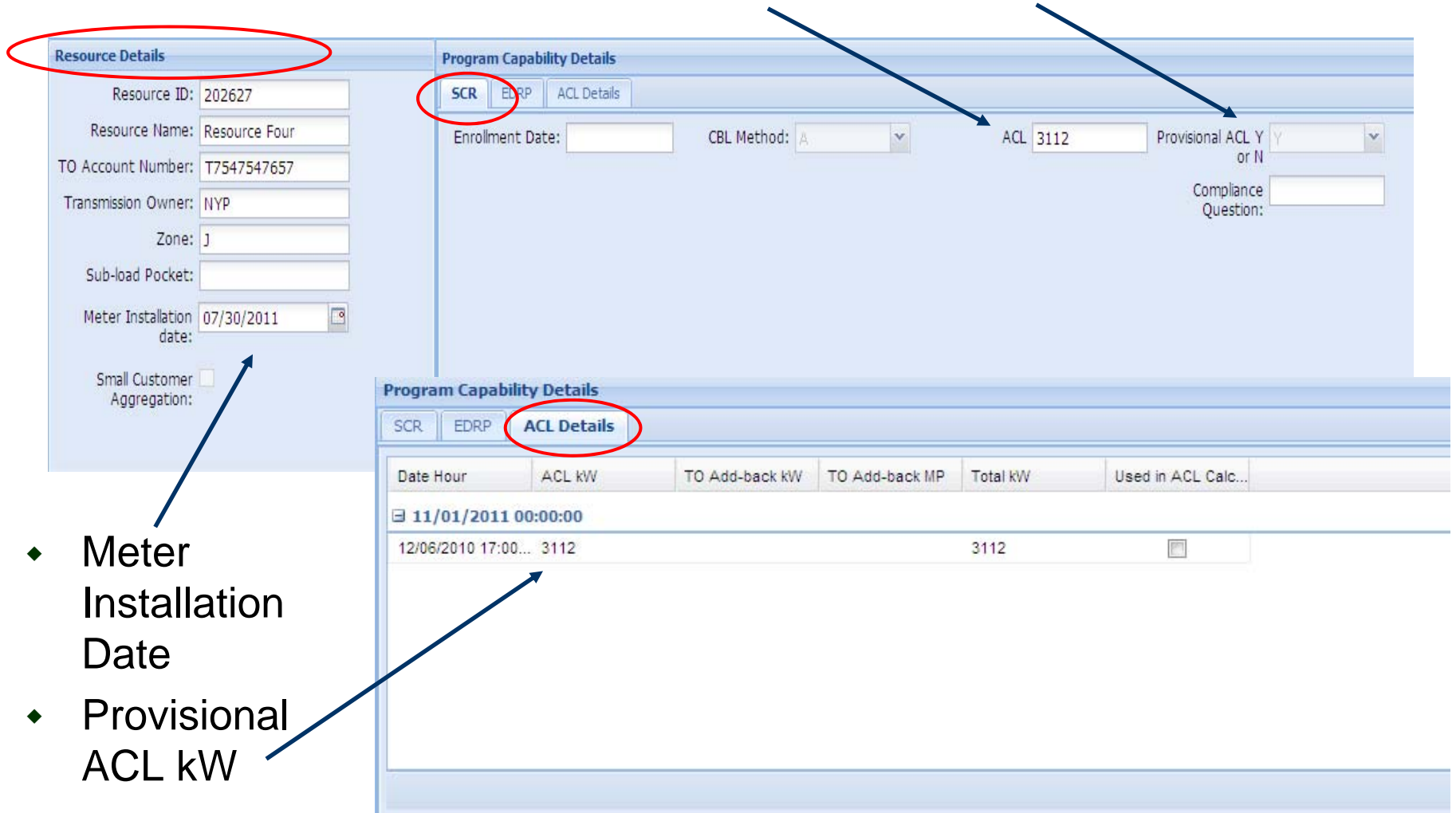
Program Capability Details

SCR
 EDRP
 ACL Details

Enrollment Date: CBL Method: ACL Provisional ACL or N
Compliance Question:

View Provisional ACL Enrollment Details

- ◆ Provisional ACL kW, Provisional ACL Question



Resource Details

Resource ID: 202627
 Resource Name: Resource Four
 TO Account Number: T7547547657
 Transmission Owner: NYP
 Zone: J
 Sub-load Pocket:
 Meter Installation date: 07/30/2011
 Small Customer Aggregation:

Program Capability Details

SCR | EDRP | ACL Details

Enrollment Date: CBL Method: A ACL 3112 Provisional ACL Y or N
 Compliance Question:

Program Capability Details

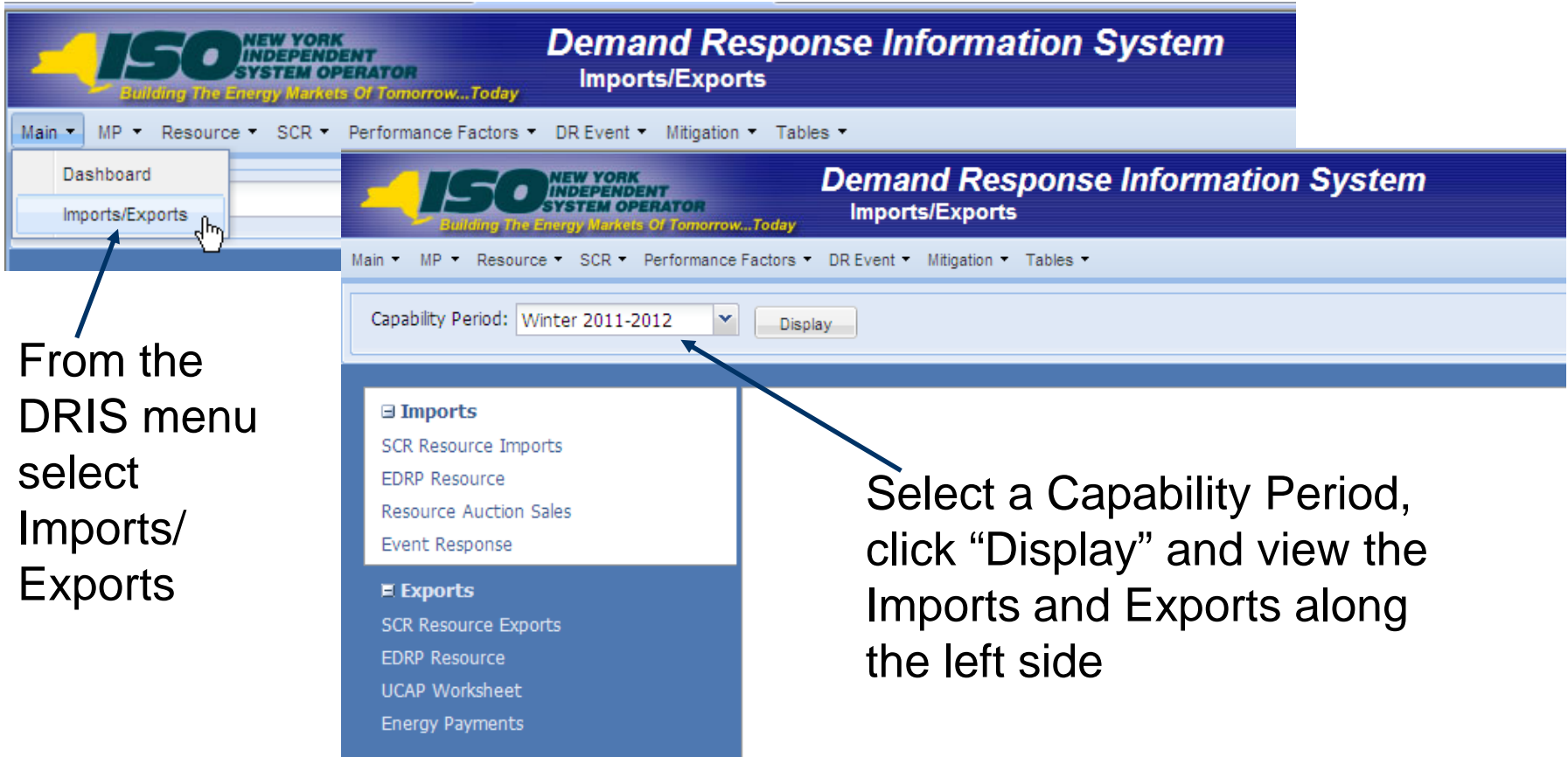
SCR | EDRP | **ACL Details**

Date Hour	ACL kW	TO Add-back kW	TO Add-back MP	Total kW	Used in ACL Calc...
11/01/2011 00:00:00					
12/06/2010 17:00...	3112			3112	<input type="checkbox"/>

- ◆ Meter Installation Date
- ◆ Provisional ACL kW

Prepare Provisional ACL Verification File

- ◆ Export Provisional ACL Verification Template containing:
 - Resources with a Provisional ACL
 - Zonal specific Peak Hours

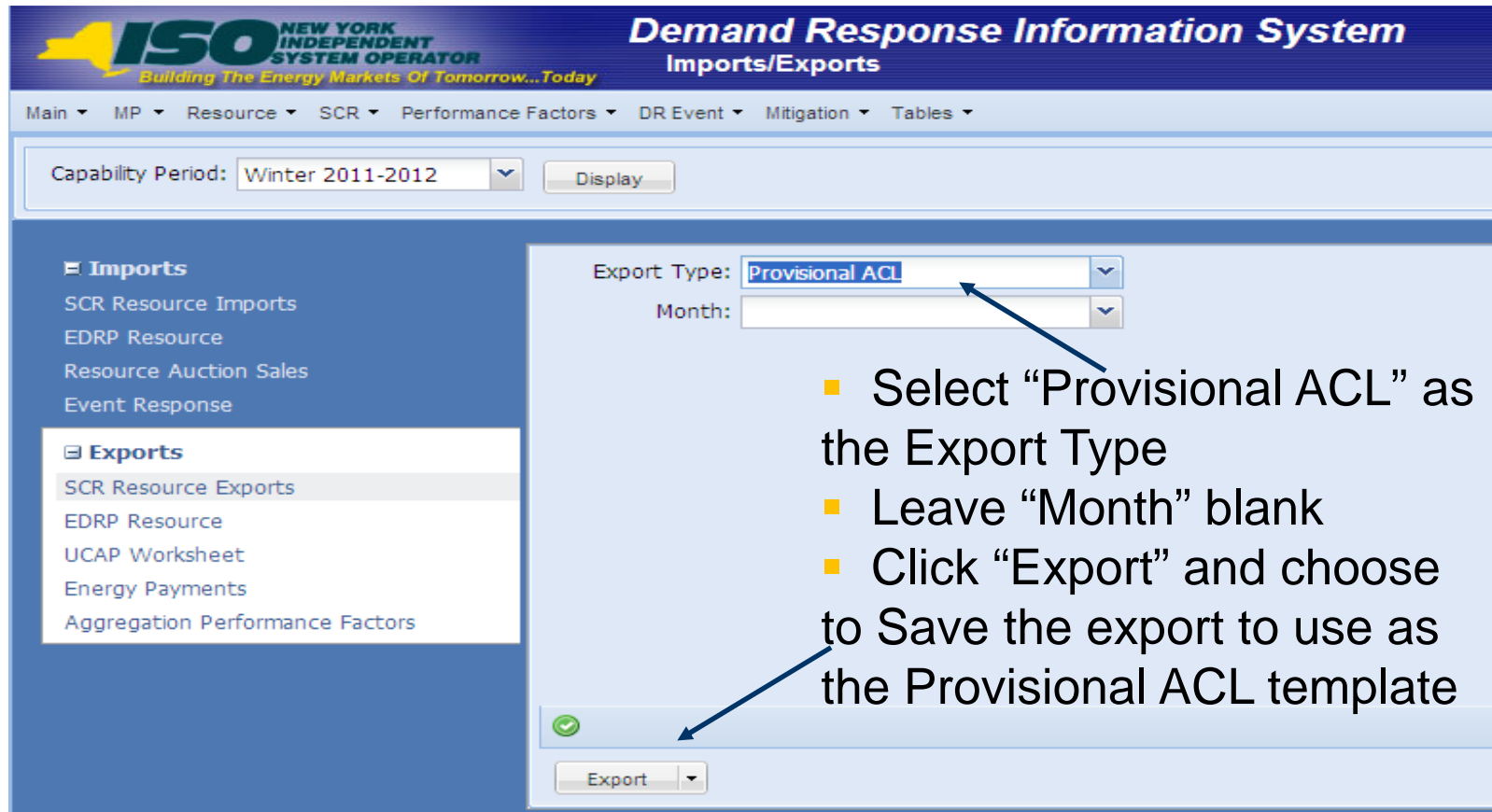


From the DRIS menu select Imports/Exports

Select a Capability Period, click "Display" and view the Imports and Exports along the left side

Prepare Provisional ACL Verification File

- ◆ Export Provisional ACL Verification Template containing:
 - Resources with a Provisional ACL
 - Zonal specific Peak Hours



Demand Response Information System
Imports/Exports

Capability Period: Winter 2011-2012

Imports
 SCR Resource Imports
 EDRP Resource
 Resource Auction Sales
 Event Response

Exports
 SCR Resource Exports
 EDRP Resource
 UCAP Worksheet
 Energy Payments
 Aggregation Performance Factors

Export Type:
 Month:

- Select “Provisional ACL” as the Export Type
- Leave “Month” blank
- Click “Export” and choose to Save the export to use as the Provisional ACL template

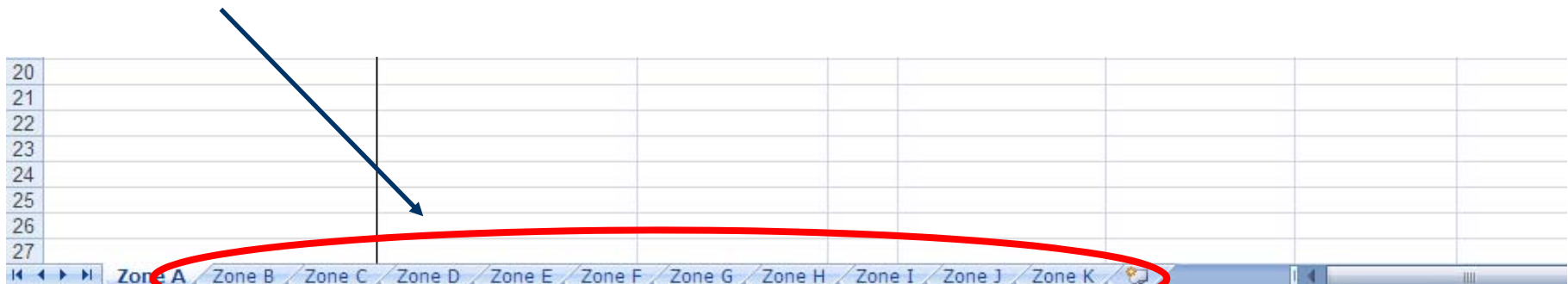
Provisional ACL Verification File

- ◆ Resource ID, Resource TO Account Number, Resource Name, Zone
- ◆ ACL kW fields for each of the Peak Dates/Hours
 - *The DRIS Provisional ACL Verification Export file will display the specific Date and Hour of each Top Peak Date and Hour*
 - *Only the ACL kW value is required from the MP*
- ◆ A tab for each zone with the zonal specific Peak Dates/Hours
- ◆ Excel is the only accepted import file format
 - *CSV format will not be accepted into DRIS*

Provisional ACL Verification Export File

	A	B	C	D	E	F	G	H	I
1	Capability Period=Winter 2011-2012&								
2	Program=SCR&								
					ACL kW for Peak Load Date Hour 1	ACL kW for Peak Load Date Hour 2	ACL kW for Peak Load Date Hour 3	ACL kW for Peak Load Date Hour 4	ACL kW for Peak Load Date Hour 5
3	Resource ID	Resource Name	TO Account Num	Zone	12/14/2010 17	12/14/2010 18	12/15/2010 17	01/24/2011 18	12/15/2010 17
4	202627	Resource Four	T7547547657	J					

- ◆ Provisional ACL Verification Export File will list all resources enrolled with a Provisional ACL in the Capability Period selected
- ◆ Provisional ACL Verification file formatted with a separate tab for each zone



20

21

22

23

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26

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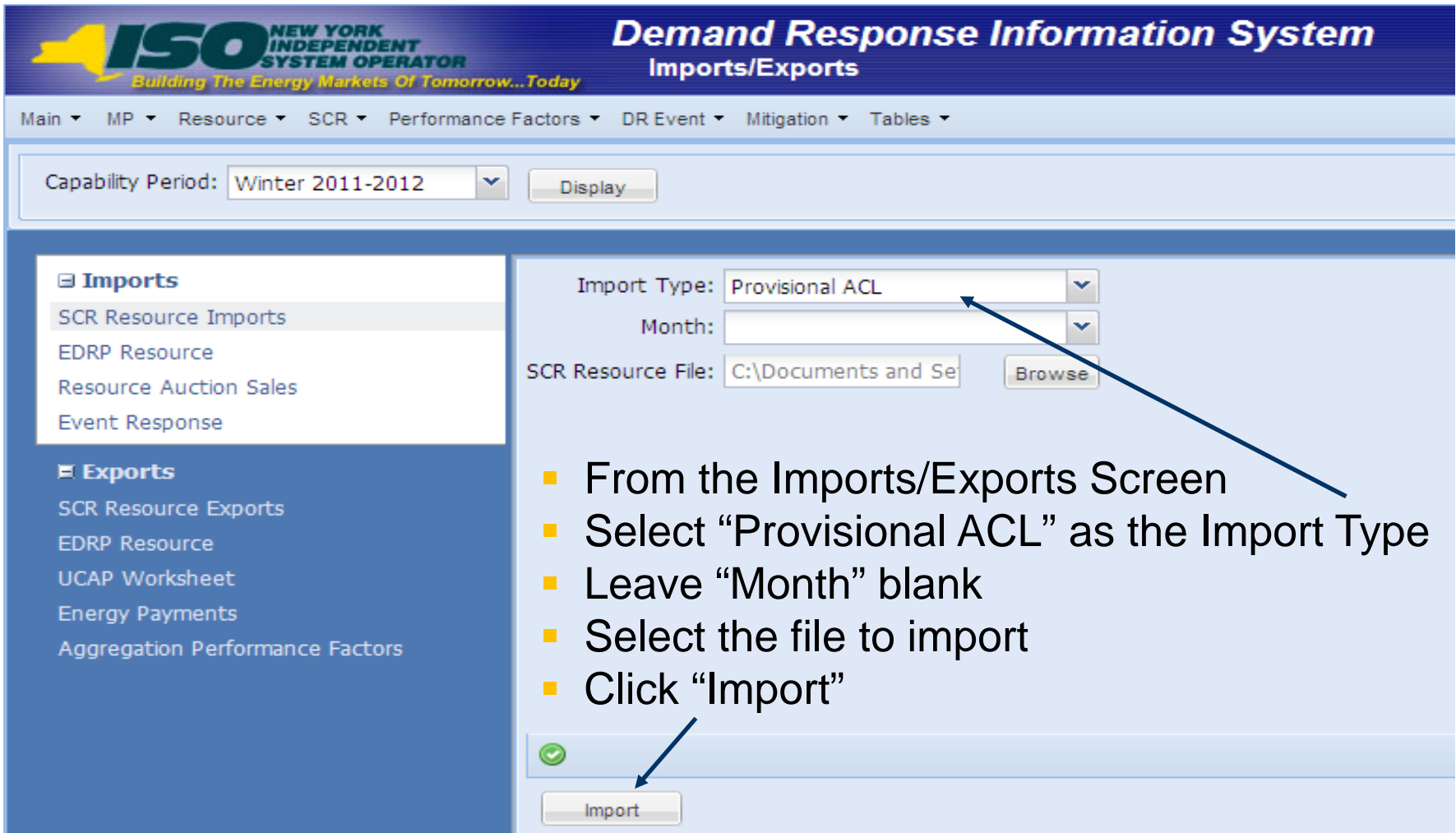
Zone A Zone B Zone C Zone D Zone E Zone F Zone G Zone H Zone I Zone J Zone K

Prepare the Provisional ACL Verification Import File

- ◆ For each Load Zone Peak Hour which is greater than or equal to the resource Meter Installation Date:
 - Enter the ACL kW of the resource enrolled with a Provisional ACL in the Capability Period selected
 - ACL kW value entered must be greater than or equal to zero
- ◆ For each Load Zone Peak Hour which is less than the resource Meter Installation Date:
 - Leave the ACL kW field blank on the import file

	A	B	C	D	E	F	G	H	
1	Capability Period=Winter 2011-2012&								
2	Program=SCR&								
3	Resource ID	Resource Name	TO Account Num	Zone	ACL kW for Peak Load Date Hour 1 12/14/2010 17	ACL kW for Peak Load Date Hour 2 12/14/2010 18	ACL kW for Peak Load Date Hour 3 12/15/2010 17	ACL kW for Peak Load Date Hour 4 01/24/2011 18	ACL kW Load D 12/15/2
4	202627	Resource Four	T7547547657	J	3128	3128	3128	3127	

Import Provisional ACL Verification File



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Imports/Exports

Main ▾ MP ▾ Resource ▾ SCR ▾ Performance Factors ▾ DR Event ▾ Mitigation ▾ Tables ▾

Capability Period: Winter 2011-2012

Imports

- SCR Resource Imports
- EDRP Resource
- Resource Auction Sales
- Event Response

Exports

- SCR Resource Exports
- EDRP Resource
- UCAP Worksheet
- Energy Payments
- Aggregation Performance Factors

Import Type: Provisional ACL
Month:
SCR Resource File: C:\Documents and Se

- From the Imports/Exports Screen
- Select "Provisional ACL" as the Import Type
- Leave "Month" blank
- Select the file to import
- Click "Import"

Resource Provisional ACL Verification Data

- ◆ Resource Provisional ACL data will receive an Approved or Under Review Status upon import
 - *Approved Status: the data for the resource met all validations and has been saved in DRIS*
 - *Under Review Status: a previous record for the resource exists which has a calculated Provisional ACL Deficiency kW for the resource*
- ◆ All resources with an Under Review status will be set to Approved or Denied by the NYISO
- ◆ All resources which have a Denied record status and no other Approved record exists, or did not have Provisional ACL data imported will be assigned an ACL of zero for use in the Provisional ACL Deficiency calculation

Provisional ACL Deficiency Calculation

- ◆ For resources with 20 or more ACL kW hours, based on the resource Meter Installation Date, DRIS will calculate a resource ACL upon import of the Provisional ACL Verification file
- ◆ For resources with less than 20 ACL kW hours, based on the resource Meter Installation Date, DRIS will take the Provisional ACL kW value from the resource enrollment
- ◆ **A resource with zero ACL kW hours, based on the resource Meter Installation Date, must import a record for the resource or be assigned a zero as the resource calculated ACL kW**

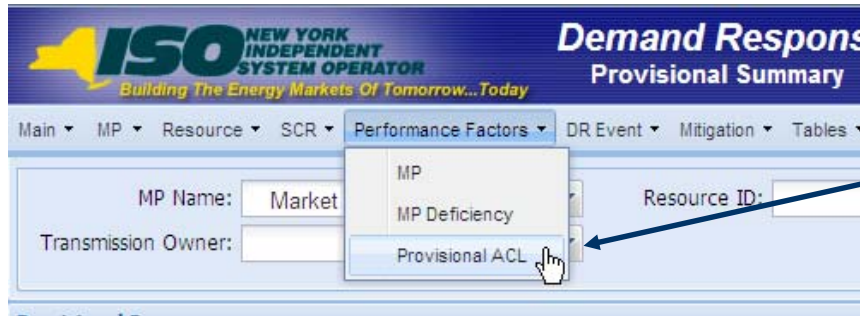
Provisional ACL Deficiency Calculation

- ◆ A resource Provisional ACL Deficiency kW will be calculated when the enrolled Provisional ACL kW value is greater than the calculated ACL kW value
- ◆ The resource Provisional ACL Deficiency kW is calculated on a monthly basis for the resource for the months in which it was enrolled in the Capability Period with the MP
- ◆ The deficiency kW is equal to the sum of the amount of UCAP the resource sold in the auction for the month and the resource AMD for the month minus the resource Calculated ACL

$$\text{UCAP}^S_{gm} + \text{AMD}_{gm} - \text{Net ACL}_{gm}$$

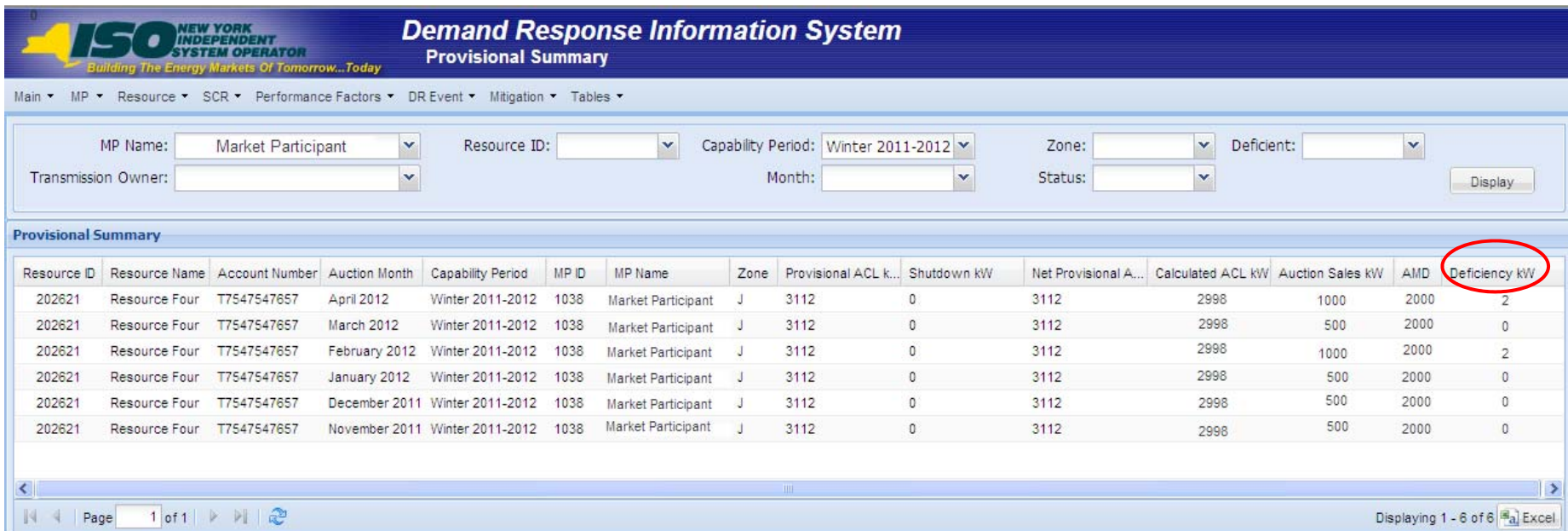
Where S = sold, g = Resource, m = Month

View Resource Provisional ACL Data



From the DRIS menu select Performance Factors and then Provisional ACL

Select a Capability Period and click "Display"



The screenshot shows the 'Demand Response Information System Provisional Summary' page. The 'Performance Factors' dropdown menu is open, and 'Provisional ACL' is selected. The 'Capability Period' is set to 'Winter 2011-2012'. The 'Display' button is visible.

Resource ID	Resource Name	Account Number	Auction Month	Capability Period	MP ID	MP Name	Zone	Provisional ACL k...	Shutdown kW	Net Provisional A...	Calculated ACL kW	Auction Sales kW	AMD	Deficiency kW
202621	Resource Four	T7547547657	April 2012	Winter 2011-2012	1038	Market Participant	J	3112	0	3112	2998	1000	2000	2
202621	Resource Four	T7547547657	March 2012	Winter 2011-2012	1038	Market Participant	J	3112	0	3112	2998	500	2000	0
202621	Resource Four	T7547547657	February 2012	Winter 2011-2012	1038	Market Participant	J	3112	0	3112	2998	1000	2000	2
202621	Resource Four	T7547547657	January 2012	Winter 2011-2012	1038	Market Participant	J	3112	0	3112	2998	500	2000	0
202621	Resource Four	T7547547657	December 2011	Winter 2011-2012	1038	Market Participant	J	3112	0	3112	2998	500	2000	0
202621	Resource Four	T7547547657	November 2011	Winter 2011-2012	1038	Market Participant	J	3112	0	3112	2998	500	2000	0

Page 1 of 1
Displaying 1 - 6 of 6

Resource Provisional ACL Summary Data

- ◆ **Provisional ACL kW:** Resource Provisional ACL from enrollment in the selected Capability Period
- ◆ **Shutdown kW:** Resource Shutdown for the Capability Period and month displayed
- ◆ **Net Provisional ACL kW:** Provisional ACL kW value less a Shutdown kW value for the Capability Period and month displayed
- ◆ **Calculated ACL kW:** DRIS calculated ACL kW value for the resource upon import of the Provisional ACL Verification file
 - *Displayed for the most recent Approved Provisional ACL Verification Date*

Resource Provisional ACL Summary Data

- ◆ **Auction Sales kW:** Auction Sales for the resource for the Capability Period and month displayed
- ◆ **AMD:** The lowest AMD of the resource from all event and test hours in which the resource performed in the Capability Period selected
- ◆ **Deficiency kW:** kW value which the resource is deficient based on the Provisional ACL Deficiency Calculation (slide 23)
 - *Displayed for the most recent Approved Provisional ACL Verification Date*


Resource Summer 2011 ACL Verification Data

- ◆ When selecting Summer 2011 Capability Period, the Provisional ACL screen will display both Provisional ACL and ACL resource Enrollments
- ◆ Summer 2011 ACL Verification data will be visible in Summary and Detail
- ◆ Additional fields will be visible to differentiate between Provisional ACL and ACL enrollments

Resource Summer 2011 ACL Verification Data

- ◆ **Provisional Check Box:** Checked when the resource data is specific to a resource enrolled with a Provisional ACL for Summer 2011
- ◆ **Summer 2011 Enrollment ACL kW:**
 - *The Provisional ACL kW value for resources enrolled with a Provisional ACL for Summer 2011, Or*
 - *The ACL kW value for resources enrolled with an ACL for Summer 2011*
- ◆ **Calculated Summer 2011 ACL < Enrollment ACL Check Box:** Checked when the DRIS calculated ACL kW value based on the Summer 2011 ACL Verification import is less than the ACL kW value imported on the resource enrollment

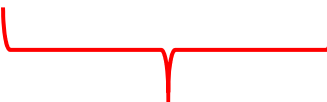

View Resource Summer 2011 ACL Verification Data


Demand Response Information System
Provisional Summary

Main ▾ MP ▾ Resource ▾ SCR ▾ Performance Factors ▾ DR Event ▾ Mitigation ▾ Tables ▾

MP Name: Resource ID: Capability Period: Zone: Deficient:
 Transmission Owner: Month: Status: Display

Provisional Summary

Resource ID	Resourc...	Account ...	Auction...	Capabilit...	MP ID	MP Name	Zone	Provisional	Summer 2011 Enrolled ACL ...	Shutdown...	Net-ACL kW	Calculated ACL kW	Auction Sales kW	AMD	Deficiency kW	Calculated Summer2011 ACL < Enrollment ACL
																

Additional fields visible when Summer 2011 Capability Period is selected

Resource Enrollment with Provisional ACL in the following Equivalent Capability Period

- ◆ A Resource may be enrolled with a Provisional ACL for a third consecutive Capability Period based on the number of Load Zone Peak Hours from the Meter Installation Date in the Prior Equivalent Capability Period
 - *A resource with fewer than the total number of Load Zone Peak Hours from the Prior Equivalent Capability Period may enroll using a Provisional ACL for the third consecutive Capability Period*

Continued Use of a Provisional ACL After the First Capability Period - continued

- ◆ **Example:** New resource enrolled with a Provisional ACL in Summer 2011 reports only 35 hours for Provisional ACL verification, based on the resource Meter Installation Date, after the Summer Capability Period.
 - *It may enroll with a Provisional ACL for the Winter 2011 – 2012 Capability Period*
 - *It may enroll with a Provisional ACL for the Summer 2012 Capability Period*

The New York Independent System Operator (NYISO) is a not-for-profit corporation that began operations in 1999. The NYISO operates New York's bulk electricity grid, administers the state's wholesale electricity markets, and provides comprehensive reliability planning for the state's bulk electricity system.

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