

IDC Regional Congestion Management Training Document

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A. CONTROL AREA RELIABILITY CAPS: CO-148

Introduction:

This Change Order Control Area Reliability Caps: CO-148 will allow the IDC software to recognize the difference between a TLR MW Cap and a Control Area or Transmission Provider MW Cap. All three of these are identified in the E-tag 1.7 specification as “Reliability Caps” that can be put on an E-tag transaction to hold the MW amount below the Scheduled amount on the original tag. Therefore it is necessary for the IDC to recognize the Control Area and Transmission Provider Caps to ensure the IDC does not try to load a transaction that a Control Area or Transmission needs reduced for Reliability Purposes.

The example below (Figure 1) shows a profile of a Transaction with an IDC and a Control Area Cap in place for the first hour of the transaction.

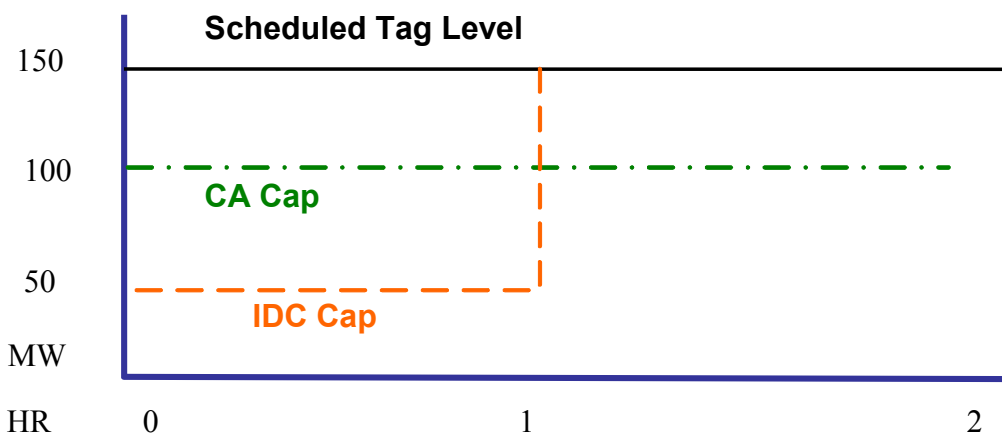


Figure 1- “Example of CA and IDC Cap on a Single Transaction”

In Hour 0 the TLR Issuance Curtailed the Tag to a LOWER value than the CA Cap (IDC Cap = 50). In this case the IDC would be controlling the Tag.

In Hour 1 the TLR was released and the Control Area Cap is now the most restrictive Cap on the transaction. The TLR will only RELOAD to the CA Cap of 100 MW in this example to respect the CA Cap in place.

In Hour 2 the CA Cap is released and the Transaction is allowed to go up to its Scheduled Value

New Features:

When a Control Area or Transmission Provider Cap is present on a tag and is the controlling cap (the CA or TP Cap is more restricting than any other cap) the IDC will Respect that Cap when Curtailing or Reloading a transaction. You can tell if a transaction is being controlled by a Control Area or a Transmission Provider Cap by viewing the **“Outside Restriction”** column in the Congestion Management Report (See Fig 2 Below).

The **“Outside Restriction”** Column has replaced the existing **“Flowgate”** column in the Congestion Management report; it now represents any restriction that is controlling the MW Level of a tag that is due to:

1. Another FG in TLR - **“TLR-FG Number(s)”** (i.e. TLR-2001, TLR-6005)
2. A Control Area Cap – **“CA-Acronym”** (i.e. CA-LGEE)
3. A Transmission Provider Cap – **“TP-Acronym”** (i.e. TP-MAPP)

You will be presented with either a Flowgate Number or an indication of which area has a Cap in place. Whatever Cap is controlling that transaction will be listed. If the Outside Restriction column reads **“NO”** then the current TLR you are viewing is controlling the transaction.

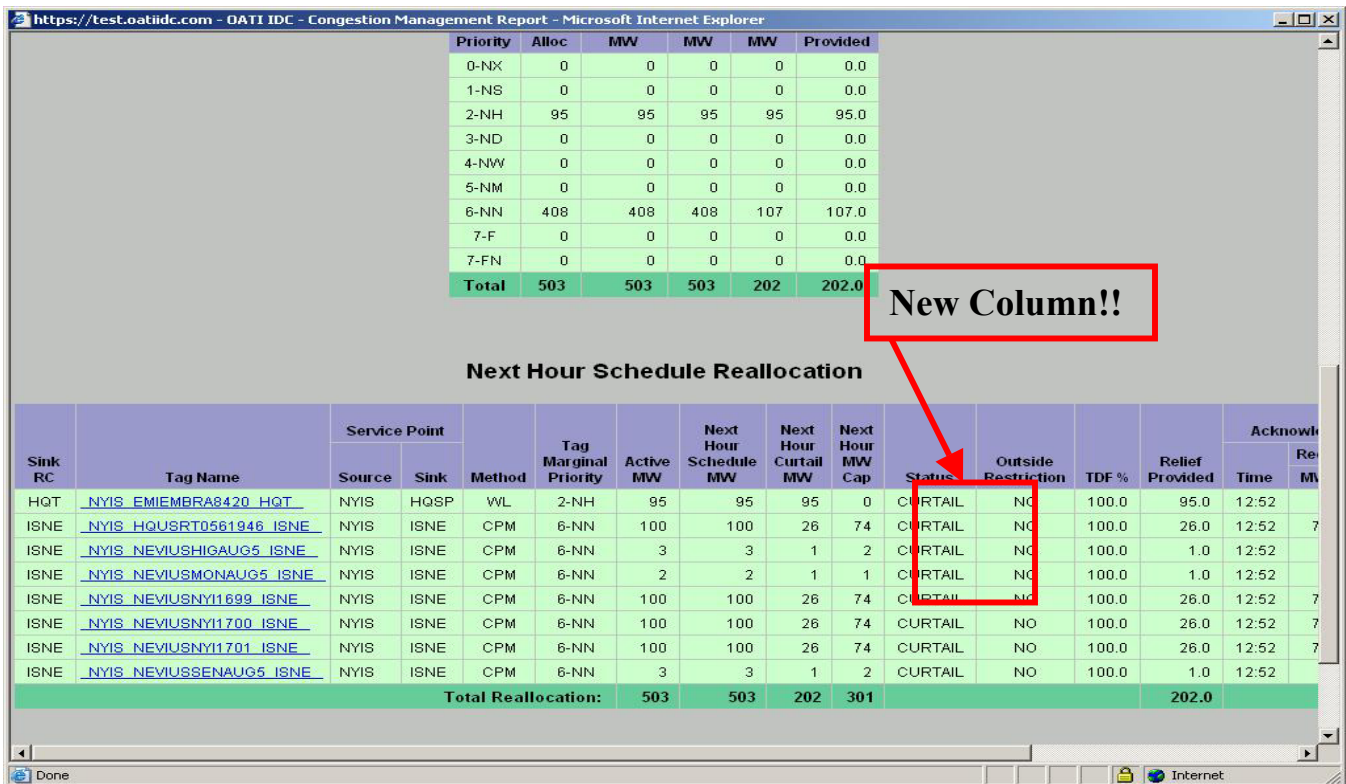


Figure –2
 “New Outside Restriction Column on TLR Congestion Management Report”

In this figure below a TLR Level 0 was issued to try to remove a IDC Cap from a transaction and RELOAD. The IDC respected the CA Cap from HE and only allowed the tag to move up to the CA Cap level for the TLR issuance.

Congestion Management Report

PENDING Flowgate: [PTDF] [2508] [Wheatland- Breed 345] Direction: From -> To

RC Requestor: MISO CA Requestor: IPL TLR Level: TLR Lev
 TLR Effective Time (CST): 08/04/2005 08:36 TLR Confirm Time (CST): Not Available TLR Report Time (CST): 08/04/20

Reload

Tag Not Allowed to go to Scheduled Value of 200 for the TLR Level 0 due to CA Cap in place = 125

Sink RC	Schedule MW	Active MW	MW Cap	TDF %	Status	Action	Curtailment Time	Outside Restriction	Interconnect	
MISO	HE HEPMM10267756 LGEE	HE LGEE CPM 0-NX	6	5	6	5.6	RELOAD	YES	08:50	NO
MISO	HE HEPMM10268546 CIN	HE CIN CPM 0-NX	70	70	70	6.3	RELOAD	YES	08:50	NO
MISO	HE HEPMM10268560 CIN	HE CIN CPM 7-F	200	200	200	6.3	RELOAD	YES	08:50	NO
MISO	HE HEPMM10268562 CIN	HE CIN CPM 7-F	200	121	125	6.3	CURTAIL	YES	08:50	CA - HE
MISO	HE HEPMM10268564 CIN	HE CIN CPM 7-F	43	43	43	6.3	RELOAD	YES	08:50	NO
Total:			519	439						

Control Area Cap from HE is present on the transaction

If a Control Area or Transmission Provider Cap comes into the IDC after a TLR is called with a MW value that is less restrictive than the TLR Curtailment it will be put on HOLD like any new tag.

Event History PAL Download Report Re-Issue TLR Proceed Print View

Next Hour Reallocation Priority Summary

Priority	Trans Alloc	Schedule MW	Active MW	Curtail MW	Relief Provided
0-NX	0	0	0	0	0.0
1-NS	260	260	260	260	13.4
2-NH	25	25	25	25	2.4
3-ND	0	0	0	0	0.0
4-NW	25	25	25	25	1.5
5-NM	0	0	0	0	0.0
6-NN	442	442	442	368	31.0
7-F	0	0	0	0	0.0
7-FN	0	0	0	0	0.0
Total	752	752	752	678	48.2

Since Requested Cap is Greater Than the IDC Cap the Request is put on HOLD

Requested MW CA Cap

IDC Cap Amount

CA Cap Came in After TLR was issued

Schedules on HOLD

Sink RC	Request		Tag Name	Dynamic Schedule	Service Point		Request MW	Method	Tag Marginal Priority	TDF %	Noted Time	Reliab. Cap Request	Schedule Adjustment	
	Type	Time			Source	Sink							Status	Action
MISO	REL (CA - MHEB)	12:39:49	MHEB_MHEMA1215P026_MISO	NO	MHEB	MISO-IMP	1000	WV	6-NN	8.2	NO	28	PENDING	N/A

A small change was made the **Schedule Adjustment Screen** on the **Congestion Management Report** to show which entities are making the transaction adjustment changes.

Select the Hyperlink to see the Schedule Adjustment details

Next Hour Schedule Reallocation																	
Point	Sink	Method	Tag Marginal Priority	Active MW	Next Hour Schedule MW	Next Hour Curtail MW	Next Hour MW Cap	Status	Outside Restriction	TDF %	Relief Provided	Acknowledgement			Schedule Adjustment		Interconnec
												Time	Requested Cap MW	Start	Status	Action	
	HQSP	WL	2-NH	95	95	95	0	CURTAIL	NO	100.0	95.0	12:52	0	13:15	YES	N/A	
	ISNE	CPM	6-NN	100	100	26	74	CURTAIL	NO	100.0	26.0	12:52	74	13:15	YES	N/A	
	ISNE	CPM	6-NN	3	3	1	2	CURTAIL	NO	100.0	1.0	12:52	2	13:15	YES	N/A	
	ISNE	CPM	6-NN	2	2	1	1	CURTAIL	NO	100.0	1.0	12:52	1	13:15	YES	N/A	
	ISNE	CPM	6-NN	100	100	26	74	CURTAIL	NO	100.0	26.0	12:52	74	13:15	YES	N/A	
	ISNE	CPM	6-NN	100	100	26	74	CURTAIL	NO	100.0	26.0	12:52	74	13:15	YES	N/A	
	ISNE	CPM	6-NN	100	100	26	74	CURTAIL	NO	100.0	26.0	12:52	74	13:15	YES	N/A	
	ISNE	CPM	6-NN	3	3	1	2	CURTAIL	NO	100.0	1.0	12:52	2	13:15	YES	N/A	
Total Reallocation:				503	503	202	301				202.0						

Once in the Schedule Adjustment Details you will be able to view the new column “**Request Issuer**” to indicate the entity that sent the Schedule Adjustment. This will help you keep track of what activity there is on the transaction you are looking at.

https://test.oatidc.com - OATI IDC - Tag Curtailment Reliability Cap Detail - Microsoft Internet Explorer

NYIS_HQUSRT0561946_ISNE
 Flowgate: [PTDF] [9155] [NYIS-ISONE]
 TLR Level: TLR Level 3A
 Direction: From -> To

Exit

Tag Schedule

	Tag Time (CST)		Schedule Time (CST)		Reliability Cap	Market Cap	Actual MW
	Start	Stop	Start	Stop			
	08/02/2005 22:00	08/03/2005 22:00	08/03/2005 12:00	08/03/2005 13:00	NO	100	100
	08/02/2005 22:00	08/03/2005 22:00	08/03/2005 13:00	08/03/2005 13:15	1000	100	100
	08/02/2005 22:00	08/03/2005 22:00	08/03/2005 13:15	08/03/2005 14:00	74	100	74

Tag Reliability Cap Requests

Current TLR Request	Request Issuer	Request Status	Approval Status	Request Submission Time	IDC Import Time	Start Time	Stop Time	MW	Company Action		
									Name	Action	Approval
NO	CA - NYIS	APPROVED		08/03 12:33:22	08/03 12:33:22	08/03 13:00	08/03 15:00	50	Not Available		
NO	IDC	APPROVED		08/03 12:37:20	08/03 12:37:20	08/03 13:00	08/03 14:00	74	Not Available		
NO	CA - NYIS	APPROVED		08/03 12:39:17	08/03 12:39:17	08/03 13:00	08/03 15:00	50	Not Available		
NO	CA - NYIS	APPROVED		08/03 12:48:40	08/03 12:48:40	08/03 13:00	08/03 15:00	1000	Not Available		
YES	IDC	APPROVED		08/03 12:52:37	08/03 12:52:37	08/03 13:15	08/03 14:00	74	Not Available		

B. DYNAMIC TRANSACTION HOLD TREATMENT: CO-179

Introduction:

This Change Order Dynamic Transaction HOLD Treatment: CO-179 will allow the IDC software to recognize a dynamic schedule change versus a normal point-to-point transaction change in profile. Currently Dynamic Schedules are required to change their profile if they change their MW output by more than 25% of their scheduled value. This can occur frequently during an hour and requires a tag update. When the tag profile hits the IDC database it is screened to see if it is necessary to put the tag change on HOLD. The following change will be made to allow Dynamic schedules to make these changes without getting put on HOLD in Non-Firm TLR Levels.

When a Flowgate is in a TLR Level 1, 2, 3A, 3B, or 4 (Non-Firm TLR Levels) a FIRM Dynamic Schedule that comes in after the XX:25 deadline will NOT be put on HOLD if it is changing its profile.

If the Flowgate is in a TLR Level 5A or higher the FIRM Dynamic schedule WILL be put on HOLD if it comes in after the XX: 25 deadline.

In order to help identify the Dynamic Schedules more clearly in the IDC Software a few fields have been added. The Figures below will show you where the Dynamic Schedule indication can be found.

In the Congestion Management Report for the TLR Level 5 the HOLD Section now has a field that indicates whether or not the transaction being put on HOLD is a Dynamic Schedule.

Control Area>NNL Responsibility											
Sink SC	Service Point	Scaled P-Max	Flowgate IHL MW	Aggregated % Impact	Current IHL Relief Provided	Next Hour Inc/Dec IHL Responsibility	IIS Dispatched MW	Current Hour Total IHL Responsibility	IHL Acknowledgement		
									Time	MW	
MISO	CIN	3325.0	434.8	13.1	33.0	31.3	0.0	64.3	15:04	31.3	
MISO	JPL	1640.0	322.0	19.6	24.0	23.6	0.0	47.6	15:04	23.6	
PJM	PJM	111.0	7.6	6.8	0.0	1.1	0.0	1.1	15:04	1.1	
Total>NNL Responsibility:									113.1	56.0	

Schedules on HOLD														
Sink RC	Request		Tag Name	Dynamic Schedule	Service Point		Request MW	Method	Tag Marginal Priority	TDF %	Hoted Time	Reliab. Cap Request	Schedule Adjustment	
	Type	Time			Source	Sink							Status	Action
MISO	NEW SCHED	15:06:09	HE_HEPMM10267756_LGEE	YES	HE	LGEE	92	CPM	7-F/7-FN	5.6	NO	6	PENDING	N/A
MISO	NEW SCHED	15:12:32	HE_HEPMM10268546_CIN	YES	HE	CIN	100	CPM	7-F/7-FN	6.3	NO	98	PENDING	N/A
MISO	NEW SCHED	15:12:04	HE_HEPMM10268546_CIN	YES	HE	CIN	100	CPM	7-F/7-FN	6.3	NO		NOT REQUIRED	
MISO	NEW SCHED	15:06:09	HE_HEPMM10268560_CIN	NO	HE	CIN	420	WL	7-F/7-FN	6.3	NO	246	PENDING	N/A

New Dynamic Schedule Field will indicate Yes or NO

“TLR Level 5A HOLD Section”

The “Whole Transaction List” will also have a field that indicates whether a tag is Dynamic or not.

Schedules Impact Detail

Sink RC	Method	Tag Name	Reservation		Reliability Cap	Market Cap	Actual MW	Amount on Flowgate		TDF (%)	Controlled Schedule	Dynamic Schedule
			MW	Priority				Schedule	Active			
MISO	WL	HE HEPMM10268700_CIN	216	7-F	216	216	216	13.6	13.6	6.27	NO	NO
MISO	WL	HE HEPMM10268701_CIN	411	7-F	182	182	182	11.4	11.4	6.27	NO	NO
MISO	WL	HE HEPMM10268703_CIN	29	7-F	29	29	29	1.8	1.8	6.27	NO	NO
MISO	WL	HE HEPMM10268706_CIN	54	7-F	54	54	54	3.4	3.4	6.27	NO	NO
Total for 7-F			710		481	481	481	30.2	30.2			
			Tag: Market: Total:					0.0	0.0			
								30.2	30.2			
MISO	CPM	HE HEPMM10267756_LGEE	500	7-FN	6	6	6	0.3	0.3	5.55	NO	YES
MISO	CPM	HE HEPMM10267758_CIN	500	7-FN	2	2	2	0.1	0.1	6.27	NO	YES
MISO	CPM	HE HEPMM10268681_CIN	89	7-FN	89	89	89	5.6	5.6	6.27	NO	YES
Total for 7-FN			1089		97	97	97	6.0	6.0			
			Tag: Market: Total:					0.0	0.0			
								6.0	6.0			
Global Total			1799		578	578	578	36.2	36.2			
			Tag: Market: Total:					0.0	0.0			
								36.2	36.2			

“Whole Transaction List Screen Shot”

The Tag Name and Schedule Adjust hyperlinks in the Congestion Management Report both show you information about the transaction, each of them has been updated to show you whether or not the Tag/Schedule you are looking at is Dynamic.

Next Hour Halted Schedules

Tag Name	Service Point			Tag Marginal Priority	Current Active MW	Next Hour Schedule MW	Next Hour MW Cap	Outside Restriction	TDF %	Relief Provided	Acknowledgement			Schedule Adjustment	
	Source	Sink	Method								Time	Requested Cap		Status	Action
												MW	Start		
HE HEPMM10268562_CIN	HE	CIN	WL	7-F	226	246	226	NO	6.3	1.3	15:04	DISREGARD	N/A	NO	N/A
HE HEPMM10268564_CIN	HE	CIN	WL	7-F	49	52	49	NO	6.3	0.2	15:04	DISREGARD	N/A	NO	N/A
HE HEPMM10267758_CIN	HE	CIN	CPM	7-FN	1	2	1	NO	6.3	0.1	15:04	DISREGARD	N/A	NO	N/A
HE HEPMM10268546_CIN	HE	CIN	CPM	7-FN	74	98	74	NO	6.3	1.5	15:04	DISREGARD	N/A	NO	N/A
Total Halt:					350	398	350			3.0					

“Congestion Management Report – Hyperlinks to Tag Information”

After selecting each Hyperlink you will be presented with a similar yellow summary box that contains basic information about the transaction. This is where you will see the indication that the transaction is a Dynamic.

TLR Tag Curtailment Schedule Detail

HE_HEPMM10267756_LGEE	
Flowgate:	[PTDF] [2508] [Wheatland- Breed 345]
TLR Level:	TLR Level 5B
Direction:	From -> To
Dynamic Schedule:	Yes
<input type="button" value="Exit"/>	

“TAG INFORMATION SCREEN”

C. UPDATE FG TDF/GSF CALCULATION TIMES: CO-170

Introduction:

The IDC will now perform full TDF and GSF calculations AUTOMATICALLY at xx:00, xx:20 and xx:40. This change will eliminate the ability for the Reliability Coordinator to enter a start time of the new flowgate addition. Instead, the IDC will automatically make the new flowgate available at the next full TDF/GSF calculation.

Documentation screen snapshot for adding a FG:

Since factors are by default calculated at the next matrix update, which occurs automatically on 20-minute intervals beginning at the top of the hour, there are no longer any options to select once the FG is added.

When a user is entering a new FG there will no longer be an Option to “Start at the next Matrix Update” or set a time for the FG to start. There will simply be a “Save” button as shown below and the FG will be ready for TLR and GSF factors will be ready at the next Twenty Minute matrix update automatically.

Flowgates Branches

Number: N/A Rationale: Type:

Description:

Bus CA: AEWG Bus KV: 345.0

08/04/2005 15:23:34 (CST)

Available Monitored Branches

From Bus	To Bus	Circuit	Direction	Add
08WHEATL 345	21WHEATL 345	1	<input checked="" type="radio"/> Normal <input type="radio"/> Reversed	<input type="checkbox"/>
21WHEATL 345	21VHTLD313.8	1	<input checked="" type="radio"/> Normal <input type="radio"/> Reversed	<input type="checkbox"/>
21WHEATL 345	21VHTLD413.8	1	<input checked="" type="radio"/> Normal <input type="radio"/> Reversed	<input type="checkbox"/>

Monitored Branches in Flowgate

Flowgate Flow Direction			
From Bus	To Bus	Circuit	Del
08WHEATL 345	21WHEATL 345	1	<input type="checkbox"/>

Only button needed to get FGs to be ready at the next matrix update

The snapshot below captures the banner which informs the user when the FG and factors will be available after a new FG is added by selecting the "SAVE" button as shown above:

Flowgates

Flowgate added with number 12930 will become available on 22 Jun 2005 14:40

SC: TVA CA: TVA Sort by: Number Search Flowgate Number: Enter

Number	Description	Type	Coord	Rationale	Status	Source
0	Swing Bus Flowgate	Inform	NO	Data Checking	ACTIVE	BOF
1202	VACAR-TVA	Inform	NO	TVA ties to VACAR	ACTIVE	BOF
1329	Batesville-BvilleTVA for loss of McAdams-WestPoint	Rel(OTDF),LODF	NO	Thermal limit	ACTIVE	BOF
1343	AllenTVA-HornLake for loss of Freeport500-230	Rel(OTDF),LODF	NO	Thermal limit	ACTIVE	BOF
1501	Conasaga - Sequoyah 500	Rel	YES	System tie	ACTIVE	BOF
1502	Oglethorpe-RockSpring 161 flo Conasaga - Bowen 500	Rel(OTDF),LODF,LODF	NO	Thermal Limit	ACTIVE	BOF
1504	Miller500-Bellefonte#2&MillerLowndes	Rel(OTDF),LODF,LODF	YES	Thermal limit	ACTIVE	BOF
1505	Miller-Lowndes500&Daniel-McKnight	Rel(OTDF),LODF,LODF	YES	Thermal limit	ACTIVE	BOF
1506	Blountville-Guntersville115	Rel	NO	Thermal limit	ACTIVE	BOF
1507	Albertville-Attalla 161 flo Conasaga - Bowen 500	Rel(OTDF),LODF,LODF	NO	Thermal Limit	ACTIVE	BOF

The screenshot shows the IDC web application interface. At the top, there is a navigation bar with various menu items like 'Issue TLR', 'Batch Next Hour TLR', 'Study TLR', etc. Below this is a search and navigation area. The main content area is titled 'ALL TLR' and contains a filter bar with 'Select TLR: ALL' and 'Select Time Range: Today'. A table titled 'Matrix Calculation Times (CST)' is highlighted with a red circle. This table has three columns: 'Full TDF Matrix', 'Market TDF Update', and 'Full GSF Matrix', with corresponding timestamps. Below this is a large table of TLR entries with columns for Status, IERC Report, Issuing RC, CA, Coord, Number, Description, Direction, TLR Level, TLR Date (CST), Run Time (CST), Req Relief, Remain Relief, and Relief Prov.

Matrix Calculation Times (CST)		
Full TDF Matrix	Market TDF Update	Full GSF Matrix
08/04 13:01:33	08/04 13:04:12	08/04 13:02:17

Status	IERC Report	Issuing RC	CA	Coord	Number	Description	Direction	TLR Level	TLR Date (CST)	Run Time (CST)	Req Relief	Remain Relief	Relief Prov.
ACTIVE	PENDING	ISNE	ISNE	NO	7015	ISONE - CAPITAL	TO -> FROM	TLR Level 5A	08/04/2005 13:15	12:54	99.0	0.0	275.0
ACTIVE	N/A	MISO	IPL	NO	2508	Wheatland- Breed 345	FROM -> TO	TLR Level 3A	08/04/2005 13:15	12:52	224.0	224.0	0.0
ACTIVE	N/A	SOCO	SOCO	NO	1403	6BLUFFTN 230 6MCINTOS 230 1	FROM -> TO	TLR Level 3A	08/04/2005 13:00	12:39	0.0	0.0	38.8
ACTIVE	N/A	SOCO	SOCO	YES	1205	8OCOONEE 500 8S HALL 500	TO -> FROM	TLR Level 3A	08/04/2005 13:00	12:35	44.0	0.0	44.0
ACTIVE	N/A	MISO	CIN	YES	2964	Merom-Dresser 345 (flo) Merom-Worthington 345	FROM -> TO	TLR Level 5A	08/04/2005 12:00	11:48	315.0	0.0	315.0
TERMINATED	PENDING	ISNE	ISNE	NO	9153	ISONE-HQSP	TO -> FROM	TLR Level 0	08/04/2005 10:55	10:49	0.0	0.0	0.0
TERMINATED	PENDING	ISNE	ISNE	NO	7015	ISONE - CAPITAL	TO -> FROM	TLR Level 0	08/04/2005 08:15	08:01	0.0	0.0	0.0
TERMINATED	PENDING	ISNE	ISNE	NO	9153	ISONE-HQSP	TO -> FROM	TLR Level 0	08/04/2005 07:55	07:53	0.0	0.0	0.0
ACTIVE	N/A	MISO	OTP	YES	6019	CENTER - JAMESTOWN 345	FROM -> TO	TLR Level 5A	08/03/2005 15:00	14:32	57.0	0.0	57.0
TERMINATED	PENDING	ISNE	ISNE	NO	7015	ISONE - CAPITAL	FROM -> TO	TLR Level 0	08/03/2005 14:55	14:52	0.0	0.0	0.0
TERMINATED	PENDING	ISNE	ISNE	NO	9151	ISONE-MAR	TO -> FROM	TLR Level 0	08/03/2005 14:20	14:03	0.0	0.0	0.0
ACTIVE	PENDING	ISNE	ISNE	NO	9155	NYIS-ISONE	FROM -> TO	TLR Level 3A	08/03/2005 13:15	12:51	200.0	0.0	200.0

The Figure Above shows the new fields on the TLR Log display that indicates the latest matrix updates for the following:

Full TDF Matrix = All Control Areas TDFs

Market TDF Matrix = All Market Import and Export TDFs

GSF Matrix = All generators in the IDC Model to System Swing

Please remember that the Market TDFs are calculated as often as the Markets send in the Marginal Zone files to the IDC and will out of sequence with the Full TDF and GSF matrices that are calculated every 20 minutes.

D. ISLANDING IN THE IDC MODEL: CO-165

This Change Order Islanding in the IDC Model: CO-165 will allow the IDC software to recognize a topology change that creates a Control Area island. When the IDC receives topology information from the SDX Files that indicates a complete Control Area has been islanded from the rest of the Eastern Interconnection the IDC User will receive an Alarm as shown below.

IDC - Training IDC Helpdesk Phone: 763-201-2010 Fax: 763-553-2813 E-Mail: helpdesk.idc@oatiinc.com

Study TLR	Trans List	Source/Sink Availability	GSF	CA GLDF	Outage	Gen. Owner Factors	Mobility Factors	Market Flow	Net Interch	Phase Shifter	Logout
Log	Whole Trans List	Source/Sink Pair TDF	Flowgate TDF	Flowgate GLDF	Flowgates	Gen. Part Factors	Marginal Zones	DA Firm Market Flow	Load	Options	

HELP E-MAIL SUPPORT FAQ NEWS PRINT

Active TLR

DATI IDC - Alarm Notification - Microsoft Internet Explorer provided by Southern Company

Notification Alarms for: SYSTEM_DISPATCHER

Time	Message
06/27/2005 17:41:24	<p style="text-align: center;">ISOLATED NETWORK ISLAND WARNING</p> <p>Current hour isolated network islands detected for the following CAs/Zones: FMPP, FPC, FPL, GVL, HST, JEA, NSB, RC, SEC, TAL, TEC Next hour isolated network islands detected for the following CAs/Zones: FMPP, FPC, FPL, GVL, HST, JEA, NSB, RC, SEC, TAL, TEC</p>