Attachment K:

Reportable Operating Data

NERC GADS Data Reporting RequirementsThe NYISO Operating Data reporting requirements for generators are essentially the same as NERC's Data Reporting Instructions as posted on the NERC website at:

http://www.nerc.com/~gads/

This attachment explains the key minimum Operating Data requirements for generators reporting GADS Data and data equivalent to GADS Data for resources whose Unforced Capacity is based on these methodologies.

Special Case Resource Operating Data is reported using the SCR Commitment workbook located on the NYISO website at:

www.nyiso.com/markets/icapinfo.html.

The most recent version of the "SCR Commitment Workbook with electronic forms" is located on this web page under the applicable Capability Period.

GADS Data and data equivalent to GADS Data

Forced Outage

An unplanned failure that requires a unit to be removed from service, or the Load on the unit to be reduced before the end of the nearest following Weekend.

Maintenance Outage

A scheduled outage or derating that can be deferred beyond the end of the nearest following Weekend but that requires the unit to be removed from service or the Load reduced before the next Planned Outage.

Note: Any Resource that notifies the ISO that it can defer its outage beyond the end of the next following Weekend, but requests a maintenance outage before the end of the next following Weekend, will have its maintenance outage request granted by the ISO unless the ISO has specific reliability concerns that require the ISO to deny such a request.

Weekend

The period of time that begins every Friday at 10:01:00 PM and ends the following Monday at 8:00:59 AM.

NERC GADS data or data equivalent to GADS Data for each Generator is to be provided to the ISO by the 20th of the month following the month for which the data applies.

See Section 4.4 of this Manual for the general Operating Data reporting requirements and the following pages for detailed Operating Data Reporting Requirements.

The input formats for NERC GADS data can also be found on the NERC web site at:

www.nerc.com

Find **GADS Services** in the **GO** link. The reporting manuals are also located there. The NERC GADS data follows an 82 character fixed format as defined in the NERC GADS manuals.

The form on the following page delineates the Performance File and Event File data layouts. The data must be submitted electronically to the ISO (gads_data@nyiso.com) in standard ASCII Text File format.

The pages following the Performance File and Event File data layouts further define GADS Data or data equivalent to GADS Data. All data will be used for internal ISO reliability studies and for calculating Unforced Capacity ("UCAP") values.

In general, generating Resources with nameplate capacities greater than 10 MW or plants whose total capacity exceeds 25 MW are expected to submit the full GADS dataset. Those Resources will have a UCAP value based on $EFOR_D$EFORd. Resources submitting equivalent GADS Data will have a UCAP value based on actualits production (orsimilar to its Capacity factor). All UCAP calculations are defined and described in Attachment J.

NERC - GADS (Required for EFORd Calculations)
All NYISO Required Fields are highlighted & identified.

PERFORMANCE FILE LAYOUT

82 Columns per RECORD

RECORD 01

9 5 1 2 3 8 0 1 2 0 0 0 0 1 0 ... 0 8 5 0 0 8 3 0 0 0 3 1 7 8 0 1 0 0 9 0 0 8 ... 0 1

Card Code 1-2
Utility Code 3-5   Year 9-12   Month 13-14
Unit Code 6-8   Revision Code 15

Net Max. Cap. 31-34
Net Dep Cap. 35-38   Unit Loading 46
Net Actual Gen. 39-45   Att. Unit Starts 47-49
Act. Unit Starts 50-52
(Blank Columns 53-55)
Record Number 81-82

82 Columns per RECORD

RECORD 02

9 5 1 2 3 8 0 1 2 0 0 0 0 1 0 0 1 0 0 0 3 8 8 ... 0 4 8 8 0 2 5 6 ... 0 2 5 6 0 7 4 4 ... 0 2

Card Code 1-2
Utility Code 3-5   Year 9-12   Month 13-14
Unit Code 6-8   Revision Code 15

Unit Service Hrs. 16-19   Synch. Cond. Hrs. 28-31   Forced Outage Hrs. 40-43   Unavailable Hours 52-55
Reserve Shutdown 20-23   Available Hrs. 32-35   Maint. Outage Hrs. 44-47   Period Hours 56-59
Pumping Hrs. 24-27   Planned Outage Hrs. 36-39   Ext. of Sched. Outages 48-51   (Blank Columns 60-80)
Record Number 81-82

* Do not zero-fill or asterisk-fill unused data fields.
** Columns 1-15 link the records together as a monthly report.
*** Columns 81-82 identify the component records.

EVENT FILE LAYOUT

82 Columns per RECORD

RECORD 01

9 7 1 2 3 8 0 1 2 0 0 0 0 0 0 1 0 P 0 0 1 1 5 0 0 0 1 ... 0 1 2 5 1 1 6 3 0 ... 0 1

Card Code 1-2
Utility Code 3-5   Year 9-12   Event Type 18-19
Unit Code 6-8   Event Number 13-16   Start of Event 20-27   (Blank Columns 28-47)
Revision Code 17
End of Event 48-55
Gross Avail. Cap. 56-59   (Blank Columns 64-80)
Net Avail. Cap 60-63   Record Number 60-82

* Do not zero-fill or asterisk-fill unused data fields.
*** Columns 81-82 identify the component records.

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NERC - GADS (Required for EFORd Calculations)
All NYISO Required Fields are highlighted & identified.

PERFORMANCE FILE LAYOUT

82 Columns per RECORD

RECORD 01

9 5 1 1 2 3 8 0 1 2 0 0 5 0 1 0 ... 0 8 5 0 0 8 3 0 0 0 3 1 7 8 0 1 0 0 9 0 0 8 ... 0 1

- Card Code 1-2
- Utility Code 3-5
- Unit Code 6-8
- Year 9-12
- Month 13-14
- Revision Code 15
- Net Max. Cap. 31-34
- Net Dep. Cap. 35-38
- Net Actual Gen. 39-45
- Unit Loading 46
- Attempted Unit Starts 47-49
- Actual Unit Starts 50-52
- Record Number 81-82

82 Columns per RECORD

RECORD 02

9 5 1 1 2 3 8 0 1 2 0 0 5 0 1 0 0 1 0 0 0 3 8 8 ... 0 4 8 8 0 2 5 6 ... 0 2 5 6 0 7 4 4 ... 0 2

- Card Code 1-2
- Utility Code 3-5
- Unit Code 6-8
- Year 9-12
- Month 13-14
- Revision Code 15
- Unit Service Hrs. 16-19
- Reserve Shutdown 20-23
- Pumping Hrs. 24-27
- Synch. Cond. Hrs. 28-31
- Available Hrs. 32-35
- Planned Outage Hrs. 36-39
- Forced Outage Hrs. 40-43
- Maint. Outage Hrs. 44-47
- Ext. of Sched. Outages 48-51
- Unavailable Hours 52-55
- Period Hours 56-59
- Record Number 81-82

* Do not zero-fill or asterisk-fill unused data fields.
** Columns 1-15 link the records together as a monthly report.
*** Columns 81-82 identify the component records.

EVENT FILE LAYOUT

82 Columns per RECORD

RECORD 01

9 7 1 2 3 8 0 1 2 0 0 5 0 0 0 1 0 P O 0 1 1 5 0 0 0 1 ... 0 1 2 5 1 6 3 0 ... 0 1

- Card Code 1-2
- Utility Code 3-5
- Unit Code 6-8
- Year 9-12
- Event Number 13-16
- Revision Code 17
- Event Type 18-19
- Start of Event 20-27
- (Blank Columns 28-47)
- End of Event 48-55
- Gross Avail. Cap 56-59
- Net Avail. Cap 60-63
- (Blank Columns 64-80)
- Record Number 81-82

82 Columns per RECORD

RECORD 02

9 7 1 2 3 8 0 1 2 0 0 5 0 0 0 1 0 P O 3 1 8 0 ... 1 ... 0 2

- Card Code 1-2
- Utility Code 3-5
- Unit Code 6-8
- Year 9-12
- Event Number 13-16
- Revision Code 17
- Event Type 18-19
- System Component Cause Code 20-23
- Event Contribution Code
- Record Number 81-82

* Do not zero-fill or asterisk-fill unused data fields.
*** Columns 81-82 identify the component records.

Required Fields for NYISO GADS Data

	Performance Record (01) Columns	Performance Record (02) Columns	Event Record (01) Columns
Card Code	1-2	1-2	1-2
Utility Code	3-5	3-5	3-5
Unit Code	6-8	6-8	6-8
Year	9-12	9-12	9-12
Revision Code	15	15	17
Record Number	81-82	81-82	81-82

(Performance Only)

Month	13-14	13-14	
Net Max. Capacity	31-34		
Net Dependable Capacity	35-38		
Net Actual Generation	39-45		
Unit Loading	46		
Attempted Unit Starts	47-49		
Actual Unit Starts	50-52		
Service Hours		16-19	
Reserve Shutdown Hours		20-23	
Pumping Hours		24-27	
Synch. Condensing Hours		28-31	
Available Hours		32-35	
Planned Outage		36-39	
Forced Outage		40-43	
Maintenance Outage		44-47	
Ext. of Sched. Outages		48-51	
Unavailable Hours		52-55	
Period Hours		56-59	

(Event Only)

Event Number			13-16
Event Type			18-19
Start Date/Time			20-27
End Date/Time			48-55
Net Available Capacity			60-63

Required Fields for NYISO GADS Data

	Performance Record (01)	Performance Record (02)	Event Record (01)	Event Record (02)
	Columns	Columns	Columns	Columns
Card Code	1-2	1-2	1-2	1-2
Utility Code	3-5	3-5	3-5	3-5
Unit Code	6-8	6-8	6-8	6-8
Year	9-12	9-12	9-12	9-12
Revision Code	15	15	17	17
Record Number	81-82	81-82	81-82	81-82
(Performance Only)				
Month	13-14	13-14		
Net Max. Capacity	31-34			
Net Dependable Capacity	35-38			
Net Actual Generation	39-45			
Unit Loading	46			
Attempted Unit Starts	47-49			
Actual Unit Starts	50-52			
Service Hours		16-19		
Reserve Shutdown Hours		20-23		
Pumping Hours		24-27		
Synch. Condensing Hours		28-31		
Available Hours		32-35		
Planned Outage		36-39		
Forced Outage		40-43		
Maintenance Outage		44-47		
Ext. of Sched. Outages		48-51		
Unavailable Hours		52-55		
Period Hours		56-59		
(Event Only)				
Event Number			13-16	13-16
Event Type			18-19	18-19
Start Date/Time			20-27	
End Date/Time			48-55	
Net Available Capacity			60-63	
System / Comp. Cause Code				20-23
Event Contribution Code				44

ISO NERC-GADS Reporting Requirements

Data marked with an * is the minimum dataset for data equivalent to GADS Data and will result in UCAP based on actual production, with allowance for scheduled outages. The full dataset will result in UCAP based on ~~EFOR$_D$.~~EFOR$_d$. See Attachment J for the actual calculation methodology.

Performance Data

Card 01

*Card Code	Required
*Utility Code	Required (Assigned)
*Unit Code	Required (Assigned)
*Year	Required
*Report Period (Month)	Required
*Record Revision Code	Required
Gross Maximum Capacity	-
Gross Dependable Capacity	-
Gross (MWhr) Actual Generation	-
*Net Maximum Capacity	Required
*Net Dependable Capacity	Required
*Net (MWhr) Actual Generation	Required
Typical Unit Loading Characteristics	Required
Attempted Unit Starts	Required
Actual Unit Starts	Required
*Record Number	Required

Card 02

*Card Code	Required
*Utility Code	Required (Assigned)
Unit Code	Required (Assigned)
*Year	Required
*Report Period (Month)	Required
*Record Revision Code	Required
*Unit Service Hours (SH)	Required
*Reserve Shutdown Hours (RH)	Required
*Pumping Hours (if applicable)	Required
*Synchronous Condensing Hours (if applicable)	Required
*Available Hours (AH)	Required
*Planned Outage Hours (POH)	Required
Forced Outage Hours & Startup Failure Hours	Required
*Maintenance Outage Hours (MOH)	Required
*Extension of Scheduled Outage Hours (SEH)	Required
Unavailable Hours (UH)	Required
*Period Hours	Required
*Record Number	Required

Card 03   *Not Required*

Card 04   *Not Required*

Event Report Data

Card 01

Card Code	Required
Utility Code	Required (Assigned)
Unit Code	Required (Assigned)
Year	Required
Event Number	Required
Record Revision Code	Required
Event Type	Required
Start of Event	Required
End of Event	Required
Gross Available Capacity as Result of Event	-
Net Available Capacity as Result of Event	Required
Record Number	Required

Cards

Card 02

Card Code	Required
Utility Code	Required (Assigned)
Unit Code	Required (Assigned)
Year	Required
Event Number	Required
Record Revision Code	Required
Event Type	Required
System Component Cause Code	Required
Event Contribution Code	Required
Record Number	Required

Cards 03-99

Provide additional event data on system /component events.   *Not Required*

Special Case Resource (SCR) Commitment/Verification

The SCR Commitment workbook is located on the NYISO website at www.nyiso.com/markets/icapinfo.html. The most recent version of the "SCR Commitment Workbook with electronic forms" is located on this web page under the current Capability Period.