Modification to FRS Form 1

Each Balancing Authority (BA) including those within a Frequency Response Sharing Group (FRSG) provides data for the determination of the appropriate Interconnection's Resource Loss Protection Criteria (RLPC). In addition to the current practice of providing their frequency response sampling for all four quarters and their Frequency Bias Setting (FBS) calculation, each BA provides requested information regarding determination of resource losses and potential maximum resource loss due to Remedial Action Scheme (RAS) actions as detailed in the "Procedure for ERO Support of Frequency Response and Frequency Bias Setting Standard". For BAs that do not have facilities that meet the defined criteria, the entity would enter "0" in the appropriate cell. It would be expected that "load only" BAs would not have resources to report, as well as "generation only" BAs that have only a single resource. It is also expected that most BAs would not have RAS actions that include loss of resources larger than their reported resource losses. To facilitate the collection of data, the FRS Form 1 has been modified with the addition of the following fields.

R18   fx   The largest resource loss within the Balancing Authority Area that results from a RAS action initiated by a multiple contingency (N-2) event as detailed in the Procedure for ERO Support of Frequency Response and Frequency Bias Settings Standard

Select Balancing Authority

AEC

NERC Eastern FRS FORM 1 - Data Entry for Operating Year 2018

Enter Addition Data in columns V through X ==>

Enter Data in Green Highlighted Cells
Grey and light blue cells are calculated or set by the ERO.

Event Number	UTC (t-0) Date / Time (MM/DD/YY HH:MM:SS)	Date/Time (t-0) BA Time	BA Time Zone	B to A DelFreq	BA Time	BA Bias DelFreq	Value "A" Information NAI	Adj.	Value "B" Information NAI	Adj.	SEFRD (FRM) for Bias (MW/0.1Hz)	for R1 (MW/0.1Hz)	Exclude for data error *
1	12/05/2017 22:18:52	12/05/2017 17:18:52	EST	-0.039	0:00:00	0.000	0.0	0.0	0.0	0.0	#DIV/0!	0.0	N
2	12/06/2017 23:27:12	12/06/2017 18:27:12	EST	0.048	0:00:00	0.000	0.0	0.0	0.0	0.0	#DIV/0!	0.0	N
3	12/11/201		EST		0:00:00	0.000	0.0	0.0	0.0	0.0	#DIV/0!	0.0	N
4	1/03/2018 07:59:40	01/03/2018 02:59:40	EST	.756	0:00:00	0.000	0.0	0.0	0.0	0.0	#DIV/0!	0.0	N
5	1/27/2018 21:17:41				0:00:00	0.000	0.0	0.0	0.0	0.0	#DIV/0!	0.0	N
6	2/03/2018 13:35:19	2/03/2018 08:35:19	EST	-0.052	0:00:00	0.000	0.0	0.0	0.0	0.0	#DIV/0!	0.0	N
7	2/16/2018 15:14:21	2/16/2018 10:14:21	EST	-0.050	0:00:00	0.000	0.0	0.0	0.0	0.0	#DIV/0!	0.0	N
8	2/21/2018 00:17:40	2/20/2018 19:17:40	EST	-0.034	0:00:00	0.000	0.0	0.0	0.0	0.0	#DIV/0!	0.0	
9	3/8/2018 5:15:50	3/08/2018 00:15:50	EST	-0.057	0:00:00	0.000	0.0	0.0	0.0	0.0	#DIV/0!	0.0	
10	3/14/2018 12:38:10	3/14/2018 08:38:10	EDT	-0.046	0:00:00	0.000	0.0	0.0	0.0	0.0	#DIV/0!	0.0	
11	3/18/2018 16:59:10	3/18/2018 12:59:10	EDT	-0.046	0:00:00	0.000	0.0	0.0	0.0	0.0	#DIV/0!	0.0	
12	4/7/2018 12:36:00	4/07/2018 08:36:00	EDT	-0.056	0:00:00	0.000	0.0	0.0	0.0	0.0	#DIV/0!	0.0	
13	4/12/2018 17:26:13	4/12/2018 13:26:13	EDT	-0.031	0:00:00	0.000	0.0	0.0	0.0	0.0	#DIV/0!	0.0	
14					0:00:00	0.000	0.0	0.0	0.0	0.0			
15					0:00:00	0.000	0.0	0.0	0.0	0.0			
16					0:00:00	0.000	0.0	0.0	0.0	0.0			
17					0:00:00	0.000	0.0	0.0	0.0	0.0			Y
18					0:00:00	0.000	0.0	0.0	0.0	0.0			Y
19					0:00:00	0.000	0.0	0.0	0.0	0.0			Y
20					0:00:00	0.000	0.0	0.0	0.0	0.0			Y
21					0:00:00	0.000	0.0	0.0	0.0	0.0			Y
22					0:00:00	0.000	0.0	0.0	0.0	0.0			Y
23					0:00:00	0.000	0.0	0.0	0.0	0.0			Y
24					0:00:00	0.000	0.0	0.0	0.0	0.0			Y
25					0:00:00	0.000	0.0	0.0	0.0	0.0			Y
26					0:00:00	0.000	0.0	0.0	0.0	0.0			Y
27					0:00:00	0.000	0.0	0.0	0.0	0.0			Y
28					0:00:00	0.000	0.0	0.0	0.0	0.0			Y
29					0:00:00	0.000	0.0	0.0	0.0	0.0			Y
30					0:00:00	0.000	0.0	0.0	0.0	0.0			Y
31					0:00:00	0.000	0.0	0.0	0.0	0.0			Y
32					0:00:00	0.000	0.0	0.0	0.0	0.0			Y
33					0:00:00	0.000	0.0	0.0	0.0	0.0			Y
34					0:00:00	0.000	0.0	0.0	0.0	0.0			Y

BA and Contact information

Eastern	Interconnection
AEC	Balancing Authority
	Contact Name
	Contact Phone #
	Contact e-mail

Interconnection RLPC Data Submittal

Largest potential resource loss within the Balancing Authority Area for the next operating year as detailed in the "Procedure for ERO Support of Frequency Response and Frequency Bias Settings Standard"

Second largest potential resource loss within the Balancing Authority Area for the next operating year as detailed in the Procedure for ERO Support of Frequency Response and Frequency Bias Settings Standard

The largest resource loss within the Balancing Authority Area that results from a RAS action initiated by a multiple contingency (N-2) event as detailed in the Procedure for ERO Support of Frequency Response and Frequency Bias

FRM Performance Results for 2018

0.00	2018 FRM - Median Estimated Frequency Response MW/0.1Hz for BA Compliance to R1, minimum Frequency Response
-2.0	2018 BA Frequency Response Obligation (FRO)
0.00	2018 FRM - Average Estimated Frequency Response MW/0.1 Hz using SEFRD for R1

FRO Calculation Worksheet for 2019

AEC	Balancing Authority
-1,015	Interconnection Frequency Response Obligation (FRO) MW/0.1 Hz. Determined by ERO.
2018	Operating Year FRM (December thru November) for calculating 2017 Bias
0.0	Operating Year 2019 BA Frequency Response Obligation (FRO) for next year's FRM
-2.0	Operating Year 2018 BA Frequency Response Obligation (FRO).

Note- Calculations for determination of BA Bias will be included in the FINAL FRS Form 1 spreadsheet posted prior to March 2019

Instructions

Annotation: Section added for RLPC Determination

Annotation: Each BA will provide resource loss data as detailed in the "Procedure for ERO Support of Frequency Response and Frequency Bias Settings Standard"

0.0	0.0	0.0	#DIV/0!	0.0	N
0.0	0.0	0.0	#DIV/0!	0.0	N
					N

| Contact Name |
| Contact Phone # |
| Contact e-mail |

Interconnection RLPC Data Submittal

Largest potential resource loss within the Balancing Authority Area for the next operating year as detailed in the "Procedure for ERO Support of Frequency Response and Frequency Bias Settings Standard"

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FRM Performance Results for 2018