

WebTads Error Message Interpretations

The data management procedures for TADS are the result of a coordinated effort between NERC and its software vendor, Open Access Technology International, Inc. (OATI). TADS data reporters use the OATI-developed software data system named webTADS to conduct data entry, error checking, management, and analysis and reporting. The purpose this document is to highlight each webTADS error message and provide insight on why that message was generated.

Table 1 provides a reference where each data form's descriptive material can be found in this *TADS Data Reporting Instruction Manual* (“Manual”) and where the error messages are described in this document.

Table 1

Form	Form Description in Manual	Error Message Description in this Document
1.1 Non-Reporting Transmission Owner Statement	Section 1.12.1	p. 1
1.2 Reporting Transmission Owner Information	Section 1.12.2	p. 1
2.1 Multi-Owner AC and DC Circuits	Section 2.1, Table 2.1	p.2
2.2 Multi-Owner AC/DC Back-to-Back Converters	Section 2.2, Table 2.2	pp. 2-3
3.1 AC and DC Circuit Inventory Data	Section 3.1, Table 3.1	pp. 3-6
3.2 Transformer Inventory Data	Section 3.2, Table 3.2	pp. 6-7
3.3 AC/DC Back-to-Back Converter Inventory Data	Section 3.3, Table 3.3	p. 8
3.4 Summary Outage Data (CY 2009)	Section 3.4, Table 3.4a	p. 9
3.4 No. of Elements with Zero Outages (CY 2010)	Section 3.4, Table 3.4b	p. 10
4.1 AC Circuit Detailed Automatic Outage Data	Section 4, Table 4.1-4.4	pp.11-13
4.2 DC Circuit Detailed Automatic Outage Data	Section 4, Table 4.1-4.4	pp.11-13
4.3 Transformer Detailed Automatic Outage Data	Section 4, Table 4.1-4.4	pp.11-13
4.4 AC/DC Back-to-Back Converter Detailed Automatic Outage Data	Section 5, Table 4.1-4.4	pp.11-13
5 Event ID Code and Event Type Number Data	Section 5, Table 5	p. 14
6.1 AC Circuit Detailed Non-Automatic Outage Data	Section 6, Table 6.1-6.4	pp. 14-16
6.2 DC Circuit Detailed Non-Automatic Outage Data	Section 6, Table 6.1-6.4	pp. 17-18
6.3 Transformer Detailed Non-Automatic Outage Data	Section 6, Table 6.1-6.4	pp. 19-20
6.4 AC/DC Back-to-Back Converter Detailed Non-Automatic Outage Data	Section 6, Table 6.1-6.4	pp. 21-22

Forms 1.1 and 1.2 – Non-Reporting and Reporting Transmission Owner Statements

For Forms 1.1 and 1.2, the data entries are freeform and the error messages are so explanatory, they are not discussed in this document.

- Form 1.1, Non-Reporting Transmission Owner Statement, provides TO contact information for those required to report data to TADS. The form is also be used by non-reporting organization to inform TADS the organization operates no elements meeting the TADS design criteria.
- Form 1.2, Reporting Transmission Owner Information, requests contact information for the TO’s primary and back-up TADS contact person, what TADS forms will or will not (including a reason) be reported by the TO, and an acknowledgement by the TO of the NERC default data confidentiality status associated with each TADS form.

Form 2.1 - Multiple-Owner AC and DC Circuits

The characteristics of each multiple-owner circuit are input on this form. This includes the circuit type (AC or DC), circuit's substation and terminal names, voltage class, underground or overhead, and the name of all circuit TO owners with their NERC identification number. Additionally, the form is used to define the one TO, if it is a multiple-owner transmission circuit, which shall report outage and inventory information (on Forms 3.x, 4.x, 5 and 6.x) for TADS.

Table 2

webTADS Error/Warning Messages		
Form 2.1 - Multiple-Owner AC and DC Circuits		
Question/Column	Trigger	OATI Message
Question 1 Were multiple-owner AC and DC Circuits added during the reporting year?	Invalid selection for 'Reporting Period Question # 1'	Question 1 must be answered.
Question 2 If the answer to the question above is "yes," does this form 2.1 reflect the additions?	Invalid selection for 'Reporting Period Question # 2'	Question 2 must be answered.
Column A Type of Circuit (AC or DC)	Invalid selection of 'Voltage Class Type'	Please select a Voltage Class Type
Column B Substation/Terminal Name (From)	Empty/blank 'From Substation'	Please specify From Substation
Columns C, D Substation/Terminal Name (To)	Empty/blank 'To Substation 1'	Please specify To Substation
Column E Voltage Class	Invalid selection of 'Voltage Class'	Please select a Voltage Class
Column F Overhead or Underground	Underground/Overhead'	Please indicate Overhead or Underground
Column G Reporting TO's NERC ID	Empty/blank Reporting TO NERC ID	Please specify Reporting NERCID
Column I Reporting TO's Element Identifier	Empty/blank 'Reporting TO Element ID'	Please specify Element ID
	Entering a 'Reporting TO Element ID' that already exists in the system	The Identifier Name already exists for this reporting period
Columns J, L, N, P, R, T, V, X, Z and AB TO#1 NERC ID	Invalid number of Reporting TO listed	Please specify at least two valid Owners
NOTE: In Form 2.1 the following columns are freeform entries and not associated with an error message: H, K, M, O, Q, S, U, W, Y, AA and AC		

Form 2.2 - Multiple-Owner AC and DC Circuits

The characteristics of each multiple-owner circuit are input on this form. This includes the circuit type (AC or DC), circuit's substation and terminal names, voltage class, underground or overhead, and the name of all circuit TO owners with their NERC identification number. Additionally, the form is used to define the one TO, if it is a

multiple-owner transmission circuit, which shall report outage and inventory information (on Forms 3.x, 4.x, 5 and 6.x) for TADS.

Table 3

webTADS Error/Warning Messages		
Form 2.2 - Multiple-Owner AC/DC BTB Converters		
Question/Column	Trigger	OATI Message
Question 1 Were multi-owner AC/DC Back-to-Back Converters added during the reporting year?	Invalid selection for 'Reporting Period Question # 1'	Question 1 must be answered
Question 2 If the answer to the question above is "yes," does this Form 2.2 reflect the additions?	Invalid selection for 'Reporting Period Question # 2'	Question 2 must be answered
Column A Name of AC/DC Back-to-Back Converter Station	Empty/blank 'Name of Converter Station'	Please specify Convert Station
Column C AC Circuit Voltage Class on one side	Invalid selection of 'AC voltage Circuit Class (Side One)'	Please select a Voltage Class (Side One)
Column D AC Circuit Voltage Class on second side	Invalid selection of 'AC voltage Circuit Class (Side Two)'	Please select a Voltage Class (Side Two)
Column G Reporting TO's NERC ID	Empty/blank Reporting TO NERC ID	Please specify Reporting NERCID
Column I Reporting TO's Element Identifier	Empty/blank 'Reporting TO Element ID'	Please specify Elemental
	Entering a 'Reporting TO Element ID' that already exists in the system	The Identifier Name already exists for this reporting period
Column J, L, N, P TO#1 NERC ID	Invalid number of Reporting TO listed	Please specify at least two valid Owners
<p>NOTE: In Form 2.2 the following columns are hidden or blank: B, E and F.</p> <p>In Form 2.2 the following columns are freeform entries and not associated with an error message: H, K, M, O and Q.</p>		

Form 3.1 - Form 3.1 AC and DC Inventory Data

The AC and DC Inventory Data Form is where the characteristics of the reporting TO's, or multiple-owner, transmissions circuits ≥ 200 kV are entered. Form 3.1 is divided into two parts. The first covers AC and DC circuit inventory data – see Table 4. The second is AC multi-circuit structure miles inventory data – see Table 5.

Table 4

webTADS Error/Warning Messages		
Form 3.1 – Part 1 – AC and DC Circuit Inventory Data		
Question/Column	Trigger	OATI Message
Column B No. of Circuits (End-of-Year)	Empty/blank 'No. of Circuits (End of Year)'	Number of Circuits must be entered. (zero is acceptable)
	Entering DC Inventory with odd number of (End of Year) circuits	Warning! Your data entry of 'y' in the 'No. of Circuits End of Year' field is an odd number. The total number of DC circuits should be equal to the total number of DC Poles. Normally there are two Poles on each structure, and therefore the total number of DC circuits is generally expected to be an 'even' number. (Also, the total number of 'DC Circuit Miles' is generally twice the line structure length.) If your 'odd' total number of poles is correct, and your total 'DC Circuit Miles' is correct, please ignore this message. If not, please revise your data entries.
Column C Circuit Miles (End-of-Year)	Empty/blank 'Circuit Miles (End of Year)'	Number of Circuits Miles must be entered. (zero is acceptable)
Column D No. of Circuits Added	Empty/blank 'No. of Circuits Added'	Number of Circuits Added must be entered. (zero is acceptable)
	Annual Number of Circuits Added > Number of Circuits Added	Annual No of Circuits Added needs to be less than or equal to the No. of Circuits Added.
Column E Equivalent Annual No. of Circuits Added	Empty/blank 'Equivalent Annual No. of Circuits Added'	Annual Number of Circuits Added must be entered. (zero is acceptable)
Column F No. of Circuit Miles for Circuits Added	Empty/blank 'No. of Circuit Miles for Circuits Added'	Number of Circuits Miles for Circuits Added must be entered. (zero is acceptable)
	Annual Number of Circuits Added > Number of Circuits Added	Annual No of Circuits Added needs to be less than or equal to the No. of Circuits Added.
Column G Equivalent Annual No. of Circuit Miles for Circuits Added	Empty/blank 'Equivalent Annual No. of Circuit Miles for Circuits Added'	Number of Circuits Miles for Circuits Added must be entered. (zero is acceptable)
	Annual Number of Circuits Miles > Number of Circuits Miles for Circuits Added	Annual No of Circuit Miles for Circuits Added needs to be less than or equal to the No. of Circuit Miles for Circuits Added.
Column H No. of Circuits Removed	Empty/blank 'No. of Circuits Removed'	Number of Circuits Removed must be entered. (zero is acceptable)
	Annual Number of Circuits Removed > Number of Circuits Removed	Annual No of Circuits Removed needs to be less than or equal to the No. of Circuits Removed.

Form 3.1 – Part 1 – AC and DC Circuit Inventory Data		
Question/Column	Trigger	OATI Message
Column I Equivalent Annual No. of Circuits Removed	Empty/blank 'Equivalent Annual No. of Circuits Removed'	Annual Number of Circuits Removed must be entered. (zero is acceptable)
Column J No. of Circuit Miles for Circuits Removed	Empty/blank 'No. of Circuit Miles for Circuits Removed'	Number of Circuits Miles for Circuits Removed must be entered. (zero is acceptable)
	Annual Number of Circuits Miles for Circuits Removed > Number of Circuits Miles for Circuits Removed	Annual No of Circuit Miles for Circuits Removed needs to be less than or equal to the No. of Circuit Miles for Circuits Removed.
Column K Equivalent Annual No. of Circuit Miles for Circuits Removed	Empty/blank 'Equivalent Annual No. of Circuit Miles for Circuits Removed'	Annual Number of Circuits Miles for Circuits Removed must be entered. (zero is acceptable)
Column L CALCULATED Annual Equivalent No. of Circuits = B-D+E+I	Empty/blank 'CALCULATED Annual Equivalent No. of Circuits'	Calculation for Circuits is missing. Press Calculate or enter value. (zero is acceptable)
Column M CALCULATED Annual Equivalent No. of Circuit Miles = C-F+G+K	Empty/blank 'CALCULATED Annual Equivalent No. of Circuit Miles'	Calculation for Circuit Miles is missing. Press Calculate or enter value. (zero is acceptable)
	Changing the No. of CALCULATED Annual Equivalent No. of AC DC Circuits to zero while existing outages are linked to the respective inventory data	Calculated No. of Circuits Circuit Miles can not be 0 (zero). The following 'Outage ID Code(s)' are linked to this inventory data: (OUTAGE ID CODE HERE) Please revise and try again.

Table 5

webTADS Error/Warning Messages		
Form 3.1 – Part 2 – AC Multi-Circuit Structure		
Question/Column	Trigger	OATI Message
Question 1 Do any of the Multi-Circuit Structure Miles contain circuits on the common structures that are reported by you and another Transmission Owner(s)?	Invalid selection for 'Reporting Period Question # 1'	Multi-Circuit Structure Miles Question 1 must be answered.
Question 2 If the answer to question 1 is "yes," have you and the other Transmission Owner(s) coordinated your reporting to insure that no double counting of Multi-Circuit Structure Miles are being reported for the circuits on these structures?	Invalid selection for 'Reporting Period Question # 2'	Multi-Circuit Structure Miles Question 2 must be answered.

Form 3.1 – Part 2 – AC Multi-Circuit Structure		
Question/Column	Trigger	OATI Message
Column C Multi-Circuit Structure Miles (End-of-Year)	Empty/blank 'No. of Multi-Circuit Structure Miles for Circuits Added'	Number of Multi-Circuit Structure Miles for Circuits Added must be entered. (zero is acceptable)
Column F No. of Multi-Circuit Structure Miles for Circuits Added	Empty/blank 'No. of Multi-Circuit Structure Miles for Circuits Added'	Number of Multi-Circuit Structure Miles for Circuits Added must be entered. (zero is acceptable)
Column G Equivalent Annual No. of Multi-Circuit Structure Miles for Circuits Added	Empty/blank 'Equivalent Annual No. of Multi-Circuit Structure Miles for Circuits Added'	Annual Number of Multi-Circuit Structure Miles for Circuits Added must be entered. (zero is acceptable)
	Equivalent Annual No. of Multi-Circuit Structure Miles for Circuits Added > No. of Multi-Circuit Structure Miles for Circuits Added	Annual No of Multi-Circuit Structure Miles for Circuits Added needs to be less than or equal to the No. of Multi-Circuit Structure Miles for Circuits Added.
Column J No. of Multi-Circuit Structure Miles for Circuits Removed	Empty/blank 'No. of Multi-Circuit Structure Miles for Circuits Removed'	Number of Multi-Circuit Structure Miles for Circuits Removed must be entered. (zero is acceptable)
Column K Equivalent Annual No. of Multi-Circuit Structure Miles for Circuits Removed	Empty/blank 'Equivalent Annual No. of Multi-Circuit Structure Miles for Circuits Removed'	Annual Number of Multi-Circuit Structure Miles for Circuits Removed must be entered. (zero is acceptable)
	Equivalent Annual No. of Multi-Circuit Structure Miles for Circuits Removed > No. of Multi-Circuit Structure Miles for Circuits Removed	Annual No of Multi-Circuit Structure Miles for Circuits Removed needs to be less than or equal to the No. of Multi-Circuit Structure Miles for Circuits Removed.
Column M CALCULATED Annual Equivalent No. of Multi-Circuit Structure Miles = C-F+G+K	Empty/blank 'CALCULATED Annual Equivalent No. of Multi-Circuit Structure Miles'	Annual No of Multi-Circuit Structure Miles for Circuits Removed needs to be less than or equal to the No. of Multi-Circuit Structure Miles for Circuits Removed.
NOTE: In Part 2 of Form 3.1 the following columns are hidden or blank: B, H, I and L.		

Form 3.2 - Form 3.2 Transformer Inventory Data

The characteristics of in-service transformers operated by the TO in a TADS circuit are input on this form. While the voltages classifications are based on the high-side voltage, the low-side voltage of the transformers must be ≥ 200 kV.

Table 6

webTADS Error/Warning Messages		
Form 3.2 - Transformer Inventory Data		
Question/Column	Trigger	OATI Message
Column A Voltage Class	Entering an transformer inventory for 200-299 kV	Warning! Voltage Class of 200-299 kV has been entered for a Transformer. Transformers must have a minimum low-side voltage of 200 kV for TADS reporting. However, as defined in the user Manual, the Voltage Class field is to contain the Transformers high-side voltage (not the low-side). As entered the data indicates the high side voltage is 299kV or less AND the low side is 200kV or greater. Please change the Voltage Class of this Transformer to a higher voltage class (OR confirm that your existing data entry is correct).
Column B No. of Transformers (End-of-Year)	Empty/blank 'No. of Transformers (End of Year)'	Number of Transformers must be entered. (zero is acceptable)
Column C No. of Transformers Added	Empty/blank 'No. of Transformers Added'	Number of Transformers Added must be entered. (zero is acceptable)
Column D Equivalent Annual No. of Transformers Added	Empty/blank 'Equivalent Annual No. of Transformers Added'	Annual Number of Transformers Added must be entered. (zero is acceptable)
	Equivalent Annual No. of Transformers Added > No. of Transformers Added	Annual No of Transformers Added needs to be less than or equal to the No. of Transformers Added.
Column E No. of Transformers Removed	Empty/blank 'No. of Transformers Removed'	Number of Transformers Removed must be entered. (zero is acceptable)
Column F Equivalent Annual No. of Transformers Removed	Empty/blank 'Equivalent Annual No. of Transformers Removed'	Annual Number of Transformers Removed must be entered. (zero is acceptable)
	Equivalent Annual No. of Transformers Removed > No. of Transformers Removed	Annual No of Transformers Removed needs to be less than or equal to the No. of Transformers Removed.
Column G CALCULATED Annual Equivalent No. of Transformers = B-C+D+F	Empty/blank 'CALCULATED Annual Equivalent No. of Transformers'	Calculation for Transformers is missing. Press Calculate. (zero is acceptable)
	Changing the No. of CALCULATED Annual Equivalent No. of Transformers to zero while existing outages are linked to the respective inventory data	Calculated No. of Transformer can not be 0 (zero). Transformer outages (Form 4.3) with the following 'Outage ID Code' are linked to this inventory data: (OUTAGE CODE ID HERE) Please revise and try again.

Form 3.3 - AC/DC BTB Converter Inventory Data

The characteristics of in-service AC/DC back-to-back converters are input on this form. The Voltage Class of the reported AC/DC BTB Converters is the highest AC terminal voltage in the AC/DC BTB Converter.

Table 7

webTADS Error/Warning Messages		
Form 3.3 - AC/DC BTB Converter Inventory Data		
Question/Column	Trigger	OATI Message
Column A Voltage Class	Invalid selection of 'Voltage Class Type'	Please select a Voltage Class Type
Column B No. of Converters (End-of-Year)	Empty/blank 'No. of Converters (End of Year)'	Number of Converters must be entered. (zero is acceptable)
Column C No. of Converters Added	Empty/blank 'No. of Converters Added'	Number of Converters Added must be entered. (zero is acceptable)
Column D Equivalent Annual No. of Converters Added	Empty/blank 'Equivalent Annual No. of Converters Added'	Annual Number of Converters Added must be entered. (zero is acceptable)
	Equivalent Annual No. of Converters Added > No. of Converters Added	Annual No of Converters Added needs to be less than or equal to the No. of Converters Added.
Column E No. of Converters Removed	Empty/blank 'No. of Converters Removed'	Number of Converters Removed must be entered. (zero is acceptable)
Column F Equivalent Annual No. of Converters Removed	Empty/blank 'Equivalent Annual No. of Converters Removed'	Annual Number of Converters Removed must be entered.(zero is acceptable)
	Equivalent Annual No. of Converters Removed > No. of Converters Removed	Annual No of Converters Removed needs to be less than or equal to the No. of Converters Removed.
Column G CALCULATED Annual Equivalent No. of Converters = B-C+D+F	Empty/blank 'CALCULATED Annual Equivalent No. of Converters'	Calculation for Converters is missing. Press Calculate. (zero is acceptable)
	Changing the No. of CALCULATED Annual Equivalent No. of Converters to zero while existing outages are linked to the respective inventory data	Calculated No. of Converters can not be 0 (zero). Converter outages (Form 4.4) with the following 'Outage ID Code' are link this inventory data: (OUTAGE CODE ID HERE) Please revise and try again.

Note: Different Forms 3.4 apply to CY 2009 and CY 2010.

Form 3.4 Summary Automatic Outage Data (CY 2009)

This form summarizes the number of outages (Sustained and Momentary) by Element and Voltage Class, along with the number of Elements that had zero Automatic Outages for the year.

Table 8 (CY 2009 only)

webTADS Error/Warning Messages		
Form 3.4 Summary Automatic Outage Data		
Question/Column	Trigger	OATI Message
Column B No. of Sustained Outages	Empty/blank 'No. of Sustained Outages'	Number of Sustained Outages must be entered. (zero is acceptable)
	When number of sustained outages is not equal number of outage counts on form 4.x	Number of Sustained Outages does not match count of outages (y) in form 4.x
Column C No. of Momentary Outages	Empty/blank 'No. of Momentary Outages'	Number of Momentary Outages must be entered. (zero is acceptable)
	When number of momentary outages is not equal number of outage counts on form 4.x	Number of Momentary Outages does not match count of outages (y) in form 4.x
Column D No. of Circuits with Zero Automatic Outages	Empty/blank 'No. of AC Circuit w/Zero Automatic Outages'	Number of "y" w/Zero Automatic Outage must be entered. (zero is acceptable)
	When number of automatic outages are more then outages on form 4.x	Number of (element type) w/Zero Automatic Outages must be less than or equal to (y) of Form 4x.
Column E Calculated Percentage Circuits with Zero Automatic Outages expressed as %	Empty/blank 'AC Circuit with Zero Automatic Outages expressed as %'	Percentage of "y" w/Zero Automatic Outages must be entered. (zero is acceptable)

Form 3.4 No. of Elements with Zero Outages (CY 2010)

Beginning with data reported for CY 2010, only the number of Elements with zero Automatic Outages and the number of Elements with zero Non-Automatic Outages are reported.

Table 9 (CY 2010 only)

webTADS Error/Warning Messages		
Question/Column	Form 3.4 No. of Elements with Zero Outages	
	Trigger	OATI Message
Column B No. of (element type) with Zero Automatic Outages	Empty/blank 'No. of (element type) w/Zero Automatic Outages'	Number of (element type) w/Zero Automatic Outage must be entered. (zero is acceptable)
	When number of automatic outages are more then outages on form 4.x	Number of (element type) w/Zero Automatic Outages must be less than or equal to the number of outages of Form 4.x.
Column C No. of (element type) with Zero Non-Automatic Outages	Empty/blank 'No. of (element type) w/Zero Non-Automatic Outages'	Number of (element type) w/Zero Non-Automatic Outage must be entered. (zero is acceptable)
	When number of non-automatic outages are more then outages on form 4.x	Number of (element type) w/Zero Non-Automatic Outages must be less than or equal to the number of outages of Form 4.x.

Form 4.X - Outages**Form 4.1 AC Circuit Outages****Form 4.2 DC Circuit Outages****Form 4.3 Transformer Outages****Form 4.4 AC/DC BTB Converter Outages**

Information on the outages experienced is recorded on an equipment specific basis but the information is reported using a common outage report format. The error listing associated with this format is described below.

Table10

webTADS Error/Warning Messages		
Form 4.1 AC Circuit Outages; Form 4.2 DC Circuit Outages Form 4.3 Transformer Outages; Form 4.4 AC/DC BTB Converter Outages		
Question/Column	Trigger	OATI Message
Column A Outage ID Code	Entering an existing Outage ID Code	Outage ID Code already exists
	Empty/blank 'Outage ID Code'	Please specify Outage ID Code
	Entering an outage without inventory existing for the respective element and element voltage class	No Inventory exists for this outage. Please first enter inventory data on Form 3.x.
Column B Event ID Code	Empty/blank 'Event ID Code'	Please specify Event ID Code
	Entering an Event ID Code that does not start in the correct reporting period, while having 'Started in a previous period' selected as the Outage Continuation Code	Event ID Code must be from a previous reporting period. See Form 5.0
	Entering an Event ID Code that does not start in the correct reporting period, while having 'Start/End current period' selected as the Outage Continuation Code	Event ID Code must be from this reporting period. See Form 5.0
	When entering an "AC/DC BTB Converter Outage Data (Form 4.4)" outage, if the Event ID Code is not of an 'Event Type No.' of 50	Event ID Code must be defined as an Event Type Nbr 50 in Form 5.0
	Entering an Event ID Code that has already been linked from another outage	Event ID Code with an Event Type No. 10 or 20 can be entered only once

Form 4.1 AC Circuit Outages; Form 4.2 DC Circuit Outages Form 4.3 Transformer Outages; Form 4.4 AC/DC BTB Converter Outages		
Question/Column	Trigger	OATI Message
Column C Voltage Class	Entering an Transformer outage with voltage class of 200-299 kV	Warning! Voltage Class of 200-299 kV has been entered for a Transformer. Transformers must have a minimum low-side voltage of 200 kV for TADS reporting. However, as defined in the user Manual, the Voltage Class field is to contain the Transformers high-side voltage (not the low-side). As entered the data indicates the high side voltage is 299kV or less AND the low side is 200kV or greater. Please change the Voltage Class of this Transformer to a higher voltage class (OR confirm that your existing data entry is correct).
Column D AC Substation Name #1	Empty/blank 'AC Substation Name #1'	Please specify (Substation Name)
Column E AC Substation Name #2	Empty/blank 'AC Substation Name (y)'	Please specify (Substation Name)
Column F AC Substation Name #3	Empty/blank 'AC Substation Name (y)'	Please specify (Substation Name)
Column G TO Element Identifier (AC Circuit)	Empty/blank 'TO Element Identifier'	Please specify Element Identifier
Column H OH or UG?	Empty/blank 'OH/UG'	Please specify if Overhead or Underground
Column I AC Multi-Owner Com. Struct. Flag	Empty/blank 'AC Multi-Owner Com. Struct. Flag'	Please specify AC Multi-Owner Com. Struct. Flag
Column J Fault Type	Empty/blank 'Fault Type'	Please specify Fault Type
Column K Outage Initiation Code	Empty/blank 'Outage Initiation Code'	Please specify Outage Initiation Code
Column L Start Time (mm/dd/yyyy hh:mm) (UTC)	Empty/blank 'UTC Outage Start Date'	Please specify UTC Outage Date
	Empty/blank 'UTC Outage Start Time'	Please specify UTC Outage Time (hh:mm)
	Entering an outage date that is outside the reporting period	Outage Date is outside reporting period
	Incorrect outage date, while 'Started in a previous period' is selected as the Outage Continuation Code	UTC Outage Date' should equal the beginning date of reporting period (because outage continued from previous period)

Form 4.1 AC Circuit Outages; Form 4.2 DC Circuit Outages Form 4.3 Transformer Outages; Form 4.4 AC/DC BTB Converter Outages		
Question/Column	Trigger	OATI Message
Column M Outage Duration hhhh:mm	Empty/blank 'Outage Duration'	Please specify Outage Duration (hhhh:mm)
	Empty/blank 'Outage Duration Hour'	Please specify valid Outage Duration Hour (hhhh)
	Empty/blank 'Outage Duration Min'	Please specify valid Outage Duration Minute (mm)
	Entering invalid outage duration Hour	Please specify valid Outage Hour (Integers Only)
	Entering invalid outage duration Minute	Please specify valid Outage Minute (Integers Only)
	Entering outage duration minute out of range (1-59)	Invalid Outage Minute (1-59 Only)
	Entering an outage duration outside the reporting period range	Outage Duration is out of range (Max duration: HHHH:MM)
	Invalid Outage Duration, while 'Continues into next period' is selected as the Outage Continuation Code	Outage Duration CAN NOT be 0:00 (because outage continued from previous period)
	Outage duration of '0' with the Sustained Cause Code not selected as 'N/A - Momentary'	The entered Duration is '0' minutes which defines this entry as a Momentary Outage. For a '0' duration outage, the Sustained Outage Cause Code must be 'N/A - Momentary'. Please enter this Sustained cause code OR change the Duration to a number greater than zero.
	Outage duration of > '0' with the Sustained Cause Code selected as 'N/A - Momentary'	Invalid Sustained Cause Code (Outage Duration must be 0:00 for NA- Momentary)
Column N Initiating Cause Code	Empty/blank 'Initiation Cause'	Please specify Initiation Cause
	Selecting 'Unavailable' as the initiating cause code	Initiating Cause Code of "Unavailable" is not a valid selection
Column O Sustained Cause Code	Empty/blank 'Sustained Cause'	Please specify Sustained Cause
Column P Outage Mode	Empty/blank 'Outage Mode'	Please specify Outage Mode
Column Q Outage Continuation Code	Empty/blank 'Outage Continuation Code'	Please specify Outage Continuation Code

Form 5 - Event ID Code and Event Type Number Data

On Form 5 the outages reported via the 4.x forms are summarized the disturbance reports being submitted by the TO.

Table 11

webTADS Error/Warning Messages		
Form 5 – Event ID Code and Event Type Number Data		
Question/Column	Trigger	OATI Message
Column A Event ID Code	Empty/blank 'Event ID Code'	Please specify Event ID Code
Column B Event Type Number	NMU are only reserved for NERC event IDs	Event ID Code cannot start with: NMU (NERC Multi-Use)
	Entering existing Event ID Code	Event ID Code already exists
	Empty/blank 'Event Type ID'	Please specify Event Type Number
Column D Disturbance Report Filed	Empty/blank 'Disturbance Report Filed'	Please specify Event Description
NOTE: In Form 5, Column C, Description of the Event, is optional. These freeform entries are not associated with an error message.		

Form 6.x - Non-Automatic Circuit Outages

These forms contain data for *each* and *every* Non-Automatic Outage of an Element, both Planned and Operational. Non-Automatic Outage occurrences are to be reported for the TADS elements identified in each TOs inventory. Specific forms are associated with each element classification. The forms are listed below and their error messages are provided in the respective tables:

6.1 AC Circuit Non-Automatic Outages	Table 11
6.2 DC Circuit Non-Automatic Outages	Table 12
6.3 Transformer Non-Automatic Outages	Table 13
6.4 AC/DC BTB Converter Non-Automatic Outages	Table 14

Table 12

webTADS Error/Warning Messages		
Form 6.1 AC Non-Automatic Circuit Outages		
Question/Column	Trigger	OATI Message
Column A Outage ID Code	Entering an existing Outage ID Code	Outage ID Code already exists
	Empty/blank 'Outage ID Code'	Please specify Outage ID Code
	No inventory data exists on form 3.x for the given voltage class code, reporting period, company, and voltage class type	No Inventory exists for this outage. Please first enter inventory data on Form 3.x.

Form 6.1 AC Non-Automatic Circuit Outages		
Question/Column	Trigger	OATI Message
Column C Voltage Class	Empty/blank 'Voltage Class Code'	Please specify Voltage Class Code
Column D AC Substation Name #1	Empty/blank 'AC Substation Name #1'	Please specify AC Substation Name #1
Column E AC Substation Name #2	Empty/blank 'AC Substation Name #2'	Please specify AC Substation Name #2
Column G TO Element Identifier (AC Circuit)	Empty/blank 'TO Element Identifier'	Please specify Element Identifier
	Element Identifier exists on Form 2.x but different TO is indicated as the reporting TO	The reporting TO for the Element Identifier (ElementNameHere) is identified on Form 2.x as another TO.
	Element Identifier exists in another outage with outage start time and duration that over laps this outage	Outage duration overlap existing outage(s) with the same element.
Column H OH or UG?	Empty/blank 'OH/UG'	Please specify if Overhead or Underground
Column K Non-Automatic Outage Type	Empty/blank 'Non-Automatic Outage Type'	Please specify Non-Automatic Outage Type
Column L Start Date (mm/dd/yyyy hh:mm)	Empty/blank 'UTC Outage Start Date'	Please specify UTC Outage Date
	Empty/blank 'UTC Outage Start Time'	Please specify UTC Outage Time (hh:mm)
	Entering an outage date that is outside the reporting period	Outage Date is outside reporting period
	Entering an outage date that is in the future of current date	Outage Date can not be future date
	Entering invalid outage duration Hour	Please specify valid Outage Hour (Integers Only)
	Entering invalid outage duration Minute	Please specify valid Outage Minute (Integers Only)
	Entering outage duration hour out of range (1-23)	Invalid Outage Hour (1-23 Only)
	Entering outage duration minute out of range (1-59)	Invalid Outage Minute (1-59 Only)
	Incorrect outage date, while 'Started in a previous period' is selected as the Outage Continuation Code	UTC Outage Date' should equal the beginning date of reporting period (because outage continued from previous period)

Form 6.1 AC Non-Automatic Circuit Outages		
Question/Column	Trigger	OATI Message
Column M Outage Duration hhhh:mm	Empty/blank 'Outage Duration'	Please specify Outage Duration (hhhh:mm)
	Empty/blank 'Outage Duration Hour'	Please specify valid Outage Duration Hour (hhhh)
	Empty/blank 'Outage Duration Min'	Please specify valid Outage Duration Minute (mm)
	Invalid Outage Duration, while 'Continues into next period' is selected as the Outage Continuation Code	Outage Duration CAN NOT be 0:00 (because outage continued from previous period)
	Entering an outage duration outside the reporting period range	Outage Duration is out of range (Max duration: HHHH:MM)
Column N Planned Outage Cause Code	Empty/blank 'Planned Outage Cause Code'	Please specify Planned Outage Cause Code
	If Non-Automatic Outage Type = 'Planned' and Planned Outage Cause Code = 'NA'	Planned Outage Cause Code CANNOT be 'NA'
	If Non-Automatic Outage Type = 'Operational' and Planned Outage Cause Code = 'NA'	Planned Outage Cause Code must be 'NA'
Column O Operational Outage Cause Code	Empty/blank 'Operational Outage Cause Code'	Please specify Operational Outage Cause Code
	If Non-Automatic Outage Type = 'Planned' and Operational Outage Cause Code = 'NA'	Operational Outage Cause Code must be 'NA'
	If Non-Automatic Outage Type = 'Operational' and Operational Outage Cause Code = 'NA'	
Column Q Outage Continuation Code	Empty/blank 'Outage Continuation Code'	Please specify Outage Continuation Code
	When outage duration are out of range based on the selected Outage Continuation Code	For the selected 'Outage Continuation Code', the Outage Duration is out of range (Minimum Duration: [HH:MM])
NOTE: In Form 6.1 AC Non-Automatic Circuit Outages the following columns are not utilized: B, I, J and P.		

Table 13

Form 6.2 DC Circuit Non-Automatic Outages		
Question/Column	Trigger	OATI Message
Column A Outage ID Code	Entering an existing Outage ID Code	Outage ID Code already exists
	Empty/blank 'Outage ID Code'	Please specify Outage ID Code
	No inventory data exists on form 3.x for the given voltage class code, reporting period, company, and voltage class type	No Inventory exists for this outage. Please first enter inventory data on Form 3.x.
Column C Voltage Class	Empty/blank 'Voltage Class Code'	Please specify Voltage Class Code
Column D AC/DC Terminal Name #1	Empty/blank 'AC/DC Terminal Name #1'	Please specify AC/DC Terminal Name #1
Column E AC/DC Terminal Name #2	Empty/blank 'AC/DC Terminal Name #2'	Please specify AC/DC Terminal Name #2
Column G TO Element Identifier (DC Circuit)	Empty/blank 'TO Element Identifier'	Please specify Element Identifier
	Element Identifier exists on Form 2.x but different TO is indicated as the reporting TO	The reporting TO for the Element Identifier (ElementNameHere) is identified on Form 2.x as another TO.
	Element Identifier exists in another outage with outage start time and duration that over laps this outage	Outage duration overlap existing outage(s) with the same element.
Column H OH or UG?	Empty/blank 'OH/UG'	Please specify if Overhead or Underground
Column K Non-Automatic Outage Type	Empty/blank 'Non-Automatic Outage Type'	Please specify Non-Automatic Outage Type
Column L Start Date (mm/dd/yyyy hh:mm)	Empty/blank 'UTC Outage Start Date'	Please specify UTC Outage Date
	Empty/blank 'UTC Outage Start Time'	Please specify UTC Outage Time (hh:mm)
	Entering an outage date that is outside the reporting period	Outage Date is outside reporting period
	Entering an outage date that is in the future of current date	Outage Date can not be future date
	Entering invalid outage duration Hour	Please specify valid Outage Hour (Integers Only)
	Entering invalid outage duration Minute	Please specify valid Outage Minute (Integers Only)
	Entering outage duration hour out of range (1-23)	Invalid Outage Hour (1-23 Only)
	Entering outage duration minute out of range (1-59)	Invalid Outage Minute (1-59 Only)

Form 6.2 DC Circuit Non-Automatic Outages		
Question/Column	Trigger	OATI Message
Column L (cont'd) Start Date (mm/dd/yyyy hh:mm)	Incorrect outage date, while 'Started in a previous period' is selected as the Outage Continuation Code	UTC Outage Date' should equal the beginning date of reporting period (because outage continued from previous period)
Column M Outage Duration hhhh:mm	Empty/blank 'Outage Duration'	Please specify Outage Duration (hhhh:mm)
	Empty/blank 'Outage Duration Hour'	Please specify valid Outage Duration Hour (hhhh)
	Empty/blank 'Outage Duration Min'	Please specify valid Outage Duration Minute (mm)
	Invalid Outage Duration, while 'Continues into next period' is selected as the Outage Continuation Code	Outage Duration CAN NOT be 0:00 (because outage continued from previous period)
	Entering an outage duration outside the reporting period range	Outage Duration is out of range (Max duration: HHHH:MM)
Column N Planned Outage Cause Code	Empty/blank 'Planned Outage Cause Code'	Please specify Planned Outage Cause Code
	If Non-Automatic Outage Type = 'Planned' and Planned Outage Cause Code = 'NA'	Planned Outage Cause Code CANNOT be 'NA'
	If Non-Automatic Outage Type = 'Operational' and Planned Outage Cause Code = 'NA'	Planned Outage Cause Code must be 'NA'
Column O Operational Outage Cause Code	Empty/blank 'Operational Outage Cause Code'	Please specify Operational Outage Cause Code
	If Non-Automatic Outage Type = 'Planned' and Operational Outage Cause Code = 'NA'	Operational Outage Cause Code must be 'NA'
	If Non-Automatic Outage Type = 'Operational' and Operational Outage Cause Code = 'NA'	
Column Q Outage Continuation Code	Empty/blank 'Outage Continuation Code'	Please specify Outage Continuation Code
	When outage duration are out of range based on the selected Outage Continuation Code	For the selected 'Outage Continuation Code', the Outage Duration is out of range (Minimum Duration: [HH:MM])
NOTE: .In Form 6.2 DC Circuit Non-Automatic Outages the following columns are not utilized: B, I, J and P.		

Table 14

webTADS Error/Warning Messages		
Form 6.3 Transformer Non-Automatic Outages		
Question/Column	Trigger	OATI Message
Column A Outage ID Code	Entering an existing Outage ID Code	Outage ID Code already exists
	Empty/blank 'Outage ID Code'	Please specify Outage ID Code
	No inventory data exists on form 3.x for the given voltage class code, reporting period, company, and voltage class type	No Inventory exists for this outage. Please first enter inventory data on Form 3.x.
Column C High-Side Voltage Class	Empty/blank 'High-Side Voltage Class'	Please specify High-Side Voltage Class Code
Column D Located at (AC Sub. Name)	Empty/blank 'Located at (AC Sub. Name)'	Please specify AC/DC Terminal Name #1
Column G TO Element Identifier (Transformer)	Empty/blank 'TO Element Identifier (Transformer)'	Please specify Element Identifier
	Element Identifier exists on Form 2.x but different TO is indicated as the reporting TO	The reporting TO for the Element Identifier (ElementNameHere) is identified on Form 2.x as another TO.
	Element Identifier exists in another outage with outage start time and duration that over laps this outage	Outage duration overlap existing outage(s) with the same element.
Column K Non-Automatic Outage Type	Empty/blank 'Non-Automatic Outage Type'	Please specify Non-Automatic Outage Type
Column L Start Date (mm/dd/yyyy hh:mm)	Empty/blank 'UTC Outage Start Date'	Please specify UTC Outage Date
	Empty/blank 'UTC Outage Start Time'	Please specify UTC Outage Time (hh:mm)
	Entering an outage date that is outside the reporting period	Outage Date is outside reporting period
	Entering an outage date that is in the future of current date	Outage Date can not be future date
	Entering invalid outage duration Hour	Please specify valid Outage Hour (Integers Only)
	Entering invalid outage duration Minute	Please specify valid Outage Minute (Integers Only)
	Entering outage duration hour out of range (1-23)	Invalid Outage Hour (1-23 Only)
	Entering outage duration minute out of range (1-59)	Invalid Outage Minute (1-59 Only)
	Incorrect outage date, while 'Started in a previous period' is selected as the Outage Continuation Code	UTC Outage Date' should equal the beginning date of reporting period (because outage continued from previous period)

Form 6.3 Transformer Non-Automatic Outages		
Question/Column	Trigger	OATI Message
Column M Outage Duration hhhh:mm	Empty/blank 'Outage Duration'	Please specify Outage Duration (hhhh:mm)
	Empty/blank 'Outage Duration Hour'	Please specify valid Outage Duration Hour (hhhh)
	Empty/blank 'Outage Duration Min'	Please specify valid Outage Duration Minute (mm)
	Invalid Outage Duration, while 'Continues into next period' is selected as the Outage Continuation Code	Outage Duration CAN NOT be 0:00 (because outage continued from previous period)
	Entering an outage duration outside the reporting period range	Outage Duration is out of range (Max duration: HHHH:MM)
Column N Planned Outage Cause Code	Empty/blank 'Planned Outage Cause Code'	Please specify Planned Outage Cause Code
	If Non-Automatic Outage Type = 'Planned' and Planned Outage Cause Code = 'NA'	Planned Outage Cause Code CANNOT be 'NA'
	If Non-Automatic Outage Type = 'Operational' and Planned Outage Cause Code = 'NA'	Planned Outage Cause Code must be 'NA'
Column O Operational Outage Cause Code	Empty/blank 'Operational Outage Cause Code'	Please specify Operational Outage Cause Code
	If Non-Automatic Outage Type = 'Planned' and Operational Outage Cause Code = 'NA'	Operational Outage Cause Code must be 'NA'
	If Non-Automatic Outage Type = 'Operational' and Operational Outage Cause Code = 'NA'	
Column Q Outage Continuation Code	Empty/blank 'Outage Continuation Code'	Please specify Outage Continuation Code
	When outage duration are out of range based on the selected Outage Continuation Code	For the selected 'Outage Continuation Code', the Outage Duration is out of range (Minimum Duration: [HH:MM])
NOTE: In Form 6.3 Transformer Non-Automatic Outages the following columns are not utilized: B, E, F, H, I, J and P.		

Table 15
webTADS Error/Warning Messages
Form 6.4 AC/DC BTB Converter Non-Automatic Outages

Question/Column	Trigger	OATI Message
Column A Outage ID Code	Entering an existing Outage ID Code	Outage ID Code already exists
	Empty/blank 'Outage ID Code'	Please specify Outage ID Code
	No inventory data exists on form 3.x for the given voltage class code, reporting period, company, and voltage class type	No Inventory exists for this outage. Please first enter inventory data on Form 3.x.
Column C Voltage Class	Empty/blank 'Voltage Class Code'	Please specify Voltage Class Code
Column D Converter Name	Empty/blank 'Converter Name'	Please specify Converter Station Name
Column G TO Element Identifier (AC/DC BTB)	Empty/blank 'TO Element Identifier'	Please specify Element Identifier
	Element Identifier exists on Form 2.x but different TO is indicated as the reporting TO	The reporting TO for the Element Identifier (ElementNameHere) is identified on Form 2.x as another TO.
	Element Identifier exists in another outage with outage start time and duration that over laps this outage	Outage duration overlap existing outage(s) with the same element.
Column K Non-Automatic Outage Type	Empty/blank 'Non-Automatic Outage Type'	Please specify Non-Automatic Outage Type
Column L Start Date (mm/dd/yyyy hh:mm)	Empty/blank 'UTC Outage Start Date'	Please specify UTC Outage Date
	Empty/blank 'UTC Outage Start Time'	Please specify UTC Outage Time (hh:mm)
	Entering an outage date that is outside the reporting period	Outage Date is outside reporting period
	Entering an outage date that is in the future of current date	Outage Date can not be future date
	Entering invalid outage duration Hour	Please specify valid Outage Hour (Integers Only)
	Entering invalid outage duration Minute	Please specify valid Outage Minute (Integers Only)
	Entering outage duration hour out of range (1-23)	Invalid Outage Hour (1-23 Only)
	Entering outage duration minute out of range (1-59)	Invalid Outage Minute (1-59 Only)
	Incorrect outage date, while 'Started in a previous period' is selected as the Outage Continuation Code	UTC Outage Date' should equal the beginning date of reporting period (because outage continued from previous period)

Form 6.4 AC/DC BTB Converter Non-Automatic Outages		
Question/Column	Trigger	OATI Message
Column M Outage Duration Hhhh:mm	Empty/blank 'Outage Duration'	Please specify Outage Duration (hhhh:mm)
	Empty/blank 'Outage Duration Hour'	Please specify valid Outage Duration Hour (hhhh)
	Empty/blank 'Outage Duration Min'	Please specify valid Outage Duration Minute (mm)
	Invalid Outage Duration, while 'Continues into next period' is selected as the Outage Continuation Code	Outage Duration CAN NOT be 0:00 (because outage continued from previous period)
	Entering an outage duration outside the reporting period range	Outage Duration is out of range (Max duration: HHHH:MM)
Column N Planned Outage Cause Code	Empty/blank 'Planned Outage Cause Code'	Please specify Planned Outage Cause Code
	If Non-Automatic Outage Type = 'Planned' and Planned Outage Cause Code = 'NA'	Planned Outage Cause Code CANNOT be 'NA'
	If Non-Automatic Outage Type = 'Operational' and Planned Outage Cause Code = 'NA'	Planned Outage Cause Code must be 'NA'
Column O Operational Outage Cause Code	Empty/blank 'Operational Outage Cause Code'	Please specify Operational Outage Cause Code
	If Non-Automatic Outage Type = 'Planned' and Operational Outage Cause Code = 'NA'	Operational Outage Cause Code must be 'NA'
	If Non-Automatic Outage Type = 'Operational' and Operational Outage Cause Code = 'NA'	
Column Q Outage Continuation Code	Empty/blank 'Outage Continuation Code'	Please specify Outage Continuation Code
	When outage duration are out of range based on the selected Outage Continuation Code	For the selected 'Outage Continuation Code', the Outage Duration is out of range (Minimum Duration: [HH:MM])
<p>NOTE: In Form 6.4 AC/DC BTB Converter Non-Automatic Outages the following columns are not utilized: B, E, F, H, I, J and P.</p>		