

Attachment 1
 Quarterly Misoperations Reporting Data

Field Name	Field Description	Example Data
Submittal Type	Enter the submittal type to differentiate between new (previously unreported Misoperation) and updated (previously reported Misoperation) data submittals for this Misoperation, or to reclassify this previously reported Misoperation as a normal operation. Field Value: New, Update, or Remove.	New
Regional Entity	Enter the regional entity to which this Misoperation is being reported. Field Value: FRCC, MRO, NPCC, RFC, SERC, SPP, TRE, or WECC	SERC
Registered Entity Name	Enter the Registered Entity's name who owns the equipment that Misoperated or the component that caused the Misoperation. Field Value: User-defined Text Field Value: User-defined text.	National Power
Registered Entity ID #	Enter the NERC ID number of the Transmission Owner, Generation Owner, or Distribution Provider who owns the equipment that Misoperated or the component that caused the Misoperation. Field Value: User-defined text.	NCR01234
Misoperation ID	Enter an identifier (16 or fewer characters) for this Misoperation that is unique to the entity. The Misoperation ID will be used to track all of the new and updated data submitted for this Misoperation. Field Value: User-defined text.	20100525-01
Misoperation Date	Enter the date when the Misoperation occurred. Field Value: MM/DD/YYYY format.	5/25/2010
Misoperation Time	Enter the time when the Misoperation occurred. Field Value: HH:MM:SS, 24 hour format.	10:02:31
Time Zone	Enter the time zone associated with the Misoperation time. Field Value: ADT, AST, CDT, CST, EDT, EST, MDT, MST, PDT, PST, or GMT.	EDT
Facility Name	Enter the substation or generating plant (facility) name where the Misoperation occurred. Field Value: User-defined text.	Lois Lane
Equipment Name	Enter the name of the BES equipment (e.g. a line, generator, transformer, shunt capacitor, etc.) associated with the Protection System that Misoperated. Field Value: User-defined text.	Kent - Lois Lane 115 kV line
Equipment Type	Enter the type of BES equipment associated with the Protection System that Misoperated. Field Value: Line, Transformer, Generator, Shunt Capacitor, Series Capacitor, Bus, Shunt Reactor/Inductor, Series Reactor/Inductor, Dynamic VAR System, Static VAR Compensator, Breaker, HVdc, or Other.	Line
Equipment Voltage (kV)	Enter the system voltage of the BES equipment associated with the Protection System that Misoperated. For transformers, use the high side voltage. Field Value: <100, 100, 115, 120, 138, 161, 230, 345, 500, 735, 765, or HVdc.	115
Additional BES Interruptions	Enter additional BES equipment that was interrupted (sustained or momentary) as a result of this Misoperation. Field Value: List of additional BES equipment names.	None (only faulted line, Lois Lane-Kent 115 kV line, tripped)

Attachment 1
 Quarterly Misoperations Reporting Data

Field Name	Field Description	Example Data
Event Description/Analysis	Enter a description and analysis of the event and the cause(s) of the Misoperation. Field Value: User-defined Text	Primary Ground Relay (KRP) failed to operate. Resulted in slow clearing at Lois Lane Substation. At Lois Lane, field found KA-4 relay with failed RRH/RRT coil that prevented a trip output from the KRP Primary ground relay.
Misoperation Category	Enter the category which best characterizes this Misoperation. Field Value: Failure to Trip – During Fault, Failure to Trip – Other Than Fault, Slow Trip – During Fault, Slow Trip – Other Than Fault, Unnecessary Trip – During Fault, or Unnecessary Trip – Other Than Fault	Slow Trip – During Fault

Attachment 1
 Quarterly Misoperations Reporting Data

Field Name	Field Description	Example Data
Misoperation General Cause	<p>Enter the general cause which contributed the most to the Misoperation.</p> <p>Field Value: AC System Failure - This includes Misoperations caused by problems with the AC source to the Protection System equipment. Examples include Misoperations caused by CT saturation, loss of potential and damage to voltage or current circuit wiring.</p> <p>Field Value: As-left Personnel Error - This includes Misoperations caused by workmanship errors following completion of construction or maintenance activities. Examples include Misoperations caused by wiring errors or relay settings errors when the documentation issued by engineering was correct, and leaving equipment out of service that should have been returned to service.</p> <p>Field Value: Communication Failure - This includes Misoperations caused by problems with the communications portion of the Protection System. Examples include Misoperations caused by transmitter, receiver, coupling equipment and channel (PLC, fiber, pilot wire, etc.) problems.</p> <p>Field Value: DC System Failure - This includes Misoperations caused by problems with the DC portion of the Protection System. Examples include Misoperations caused by the loss of DC power to a relay or communications device, and problems with the battery, battery charging system, DC wiring, or circuit breaker trip circuits.</p> <p>Field Value: Incorrect Setting/Logic/Design Errors - This includes Misoperations caused by an engineering error. Examples include Misoperations caused by errors in Protection System settings or designs (wiring documentation, specifications, etc.) that were implemented as specified.</p> <p>Field Value: Relay Failure/Malfunction - This includes Misoperations caused by a problem with the relaying portion of the Protection System. Examples include Misoperations caused by relay component failures, physical damage to relays, relay firmware problems, relay manufacturer errors, relay power supply failures, auxiliary tripping relay failures, relay characteristic drift and stuck relay contacts.</p> <p>Field Value: Other/Explainable - This includes Misoperations that were determined to have an identified cause but they do not fit well into any of the above categories. For example, unique fault characteristics or temporary abnormal changes in network topology that because of their low probability of occurrence could (or should) not be accounted for in the design of the Protection System.</p> <p>Field Value: Unknown/Unexplainable - This includes Misoperations where the failure or error that caused the Misoperation has not been determined. Investigative actions (planned and completed) should be documented in the "Event Description/Analysis" field. If the investigation has been closed, a justification for the "Unknown/Unexplainable" finding should be entered in the "corrective action plan/action plan/declaration" field.</p>	Relay Failure/Malfunctions

Attachment 1
 Quarterly Misoperations Reporting Data

Field Name	Field Description	Example Data
Protection Systems/Components that Misoperated	Enter information on the Protection Systems/components that misoperated. If the "Misoperation General Cause" is identified as either "Relay Failure/Malfunction" or "Incorrect Settings/Logic/Design Errors", list the relay model(s) and protection scheme(s) involved. Field Value: User-defined Text	KA-4 used in DCB scheme
Relay Technology	If the "Misoperation General Cause" is "Relay failures/malfunctions" or "Incorrect settings/logic/design errors", enter the relay technology installed, otherwise indicate N/A. Field Value: Electromechanical, Solid State, Microprocessor, or N/A	Electromechanical
TADS Reportable Outage?	Enter whether this Misoperation resulted in a TADS reportable outage. Field Value: Yes or No	No
TADS Event ID(s)	Enter each TADS Event ID which resulted from this Misoperation from TADS Form 5 (if the outage is a TADS reportable outage). Field Value: User-defined Text	N/A
GADS Reportable Outage?	Enter whether this Misoperation resulted in a GADS reportable outage. Field Value: Yes or No	No
GADS Event ID(s)	Enter each GADS Event ID which resulted from this Misoperation if the outage is a GADS reportable outage. Field Value: User-defined Text	N/A
Event Analysis Completion Date	Indicate the date when all of the following was completed: Protection System operation was reviewed, Misoperation was designated, and the findings documented including a cause if identified. Field Value: MM/DD/YYYY format	6/25/2010
Corrective Action Plan/Declaration Development Date	If a misoperation cause was identified, indicate the date the Corrective Action Plan, or Declaration was developed. Field Value: MM/DD/YYYY format	7/25/2010
Action Plan/Declaration Development Date	If the cause of the misoperation was not identified, indicate the date the Action Plan or Declaration was developed. Field Value: MM/DD/YYYY format	7/25/2010
Resolution Status	Enter the level of progress in your analysis or towards completing the Corrective Action Plan, action plan or declaration. Field Value: Analysis - In Progress, Analysis - Completed, Corrective Action Plan - In Progress, Corrective Action Plan- Completed, Action Plan - In Progress, Action Plan - Completed, Declaration - In Progress, or Declaration - Completed	Corrective Action Plan - In Progress
Corrective Action Plan/Action Plan/Declaration	Identify the actions taken as part of a Correction Action Plan or action plan, or a declaration of why no action is required. Field Value: User-defined Text	The power line carrier transceiver at Lois Lane is scheduled to be replaced due to an unrelated failure. This KA-4 relay will be replaced at that time.
Target Resolution Completion Date	Enter the Corrective Action Plan or action plan target completion date. Can be left blank if actual resolution completion date is completed or if a declaration was developed. Field Value: MM/DD/YYYY format	12/31/2012
Actual Resolution Completion Date	Enter the Corrective Action Plan or action plan actual completion date Field Value: MM/DD/YYYY format	12/31/2012

Attachment 1
Quarterly Misoperations Reporting Data

Field Name	Field Description	Example Data
Reported By	Identify the reporting Entity point of contact. Field Value: User-defined Text	Tom Jefferson
Phone Number	Identify the reporting Entity point of contact phone number. Field Value: User-defined Text	959-867-5309
E-Mail Address	Identify the reporting Entity point of contact E-Mail address. Field Value: User-defined Text	TJ@NPI.net
Date Reported	Enter the report date. Field Value: MM/DD/YYYY format	6/30/2010