 CALIFORNIA ISO <small>California Independent System Operator</small>	MAINTENANCE PROCEDURES	Procedure No.	5
		Version Number	2
Classifying Forced Outages		Approved Date	7/21/05
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Classifying Forced Outages



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Table 1 Examples of Outage Classification for Common Events

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5.1 Purpose


This procedure supports efforts to accurately interpret and report Forced Outage^(IMS) data used to calculate Availability Measures as described in Appendix C.

5.2 Scope

To accurately calculate Availability Measures, Appendix C definitions must be applied. Unlike Appendix D, Appendix C classifies an event as an Outage^(IMS) if it interrupts power flow between terminals. This distinction is significant because Appendix C definitions properly reduce the number of events classified as Forced Outages^(IMS). For example, a Station Outage^(IMS) may still be recorded as a Forced Outage^(IMS), but, it shouldn't be recorded as a Transmission Line Circuit Forced Outage^(IMS) unless the event actually interrupts power flow in the associated Transmission Line Circuit. Similarly, when a piece of equipment is taken out of service, either scheduled or unscheduled, this event is not considered an Outage^(IMS) for the purposes of calculating "Availability Measures", provided it does not interrupt the flow of power between terminals.

5.3 Safety

The ISO and PTOs want to encourage the safe operation of the ISO grid. Therefore, it is their intention to encourage safe work practices. The concern of reducing the number of Forced Outages^(IMS) should not affect the safety of personnel or the general public.

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5.4 Descriptions Classifications

Table 1 illustrates some common events and indicates how each should be classified when preparing Availability Measures reports.

Table 1 - Examples of Outage Classification for Common Events

No.	Description	Classification
1	Request for cutout on a reclosing relay.	Not a Forced Outage
2	Circuit breakers, switches and buses taken out of service, provided power flow can be maintained between Line terminals.	Not a Forced Outage
3	Line Section is in outage condition w/ one breaker energized and not part of the clearance. Terminal with this breaker was de-energized, provided no power was flowing through it.	Not a Forced Outage
4	Transmission Line Circuit terminates into a series transformer and transformer experiences an outage that interrupts power flow.	Forced Outage
5	PTOs RAS causes outage condition on its Transmission Line Circuits.	Forced Outages
6	Line Section is in outage condition and ISO determines request for extension to last approved return date/time will compromise only grid reliability.	Forced Outage
7	Line Section is in outage condition and ISO determines request for extension to last approved return date/time impacts safety or will not compromise grid reliability.	Not a Forced Outage
8	Less than 72-hour notification on Transmission Line Circuit outage request and ISO dispatcher determines only grid reliability will be compromised.	Forced Outage
9	Less than 72-hour notification on Transmission Line Circuit outage request and ISO dispatcher determines the request impacts safety or will not compromise grid reliability	Not a Forced Outage