NERC CCAP
Cause Code Quick Reference

A1 Design/Engineering
B1 DESIGN INPUT LTA
B2 DESIGN OUTPUT LTA
B3 DESIGN DOCUMENTATION LTA
B4 DESIGN INSTALLATION VERIFICATION LTA
B5 OPERABILITY OF DESIGN ENVIRONMENT LTA

A2 Equipment/Material
B1 CALIBRATION FOR INSTRUMENTS LTA
B2 PERIODIC/ CORRECTIVE MAINTENANCE LTA
B3 INSPECTION TESTING LTA
B4 MATERIAL CONTROL LTA
B5 PROCUREMENT CONTROL LTA
B6 EFFECTIVE, FAILED, OR CONTAMINATED
B7 EQUIPMENT INTERACTIONS LTA

A3 Individual Human Performance
B1 SKILL BASED ERROR
B2 RULE BASED ERROR
B3 KNOWLEDGE BASED ERROR
B4 WORK PRACTICES LTA

A4 Management/Organization
B1 MANAGEMENT METHODS LTA
B2 RESOURCE MANAGEMENT LTA
B3 WORK ORGANIZATION & PLANNING LTA
B4 SUPERVISORY METHODS LTA
B5 CHANGE MANAGEMENT LTA

A5 Communication
B1 WRITTEN COMMUNICATION METHOD OF PRESENTATION LTA
B2 WRITTEN COMMUNICATION CONTENT LTA
B3 WRITTEN COMMUNICATION NOT USED
B4 VERBAL COMMUNICATION LTA

A6 Training
B1 NO TRAINING PROVIDED
B2 TRAINING METHODS LTA
B3 TRAINING MATERIAL LTA

A7 Other
B1 EXTERNAL PHENOMENA
B2 RADIATIONAL HAZARDOUS MATERIAL PROBLEM
B3 VENDOR OR SUPPLIER PROBLEM

A8 (Open)
AX Overall Configuration
B1 INSTALLATION DESIGN CONFIGURATION LTA
B2 MAINTENANCE MODIFICATION CONFIGURATION LTA

AZ – Information to determine cause LTA
B1 UNABLE TO IDENTIFY SPECIFIC ROOT CAUSE
B2 REPORT STOPS AT FAILED ERROR MODE (WHAT HAPPENED, NOT WHY IT HAPPENED)
B3 OTHER PARTIES INVOLVED IN EVENT
B4 CROSS-REFERENCE REQUIRED FOR OTHER SOURCES OF INFORMATION

ALL - No causes found

Level A codes are understood
Level B codes are “terminal cause” LTA as identified above

Disclaimer: This NERC Event Analysis document is a working document used for analyzing events in order to identify reliability risk to the North American Bulk Power System, to ensure and continuously improve reliability. This document cannot be used for compliance monitoring or enforcement purposes. Any statements or conclusions on this document will not prejudge the outcome of an event analysis or a potential compliance review associated with the same facts or circumstances. This document makes no findings regarding compliance with Reliability Standards.