

Cause Counts 08J

A1B1C01	A1B1C01 - Design input cannot be met	0	A4B1C01	A4B1C01 - Management policy guidance / expectations not well-defined, understood or enforced	5	Start	6/1/2007
A1B1C02	A1B1C02 - Design input obsolete	0	A3B1C01	A3B1C01 - Check of work was LTA	4	Stop	6/1/2008
A1B1C03	A1B1C03 - Design input not correct	0	A3B2C02	A3B2C02 - Signs to stop were ignored and step performed incorrectly	3		
A1B1C04	A1B1C04 - Necessary design input not available	0	A3B2C04	A3B2C04 - Previous successes in use of rule reinforced continued use of rule	3		
A1B2C01	A1B2C01 - Design output scope LTA	0	A4B3C11	A4B3C11 - Inadequate work package preparation	3		
A1B2C02	A1B2C02 - Design output not clear	1	A3B1C02	A3B1C02 - Step was omitted due to distraction	2		
A1B2C03	A1B2C03 - Design output not correct	0	A3B3C03	A3B3C03 - Individual justified action by focusing on biased evidence	2		
A1B2C04	A1B2C04 - Inconsistent design output	1	A4B3C06	A4B3C06 - Planning not coordinated with inputs from walkdowns / task analysis	2		
A1B2C05	A1B2C05 - Design input not addressed in design output	0	A4B3C08	A4B3C08 - Job scoping did not identify special circumstances and/or conditions	2		
A1B2C06	A1B2C06 - Drawing, specification or data error	0	A5B2C05	A5B2C05 - Ambiguous instructions / requirements	2		
A1B2C07	A1B2C07 - Error in equipment or material selection	0	A1B2C02	A1B2C02 - Design output not clear	1		
A1B2C08	A1B2C08 - Errors not detectable	1	A1B2C04	A1B2C04 - Inconsistent design output	1		
A1B2C09	A1B2C09 - Errors not recoverable	0	A1B2C08	A1B2C08 - Errors not detectable	1		
A1B3C01	A1B3C01 - Design / documentation not complete	0	A1B4C02	A1B4C02 - Testing of design / installation LTA	1		
A1B3C02	A1B3C02 - Design / documentation not up-to-date	0	A1B5C01	A1B5C01 - Ergonomics LTA	1		
A1B3C03	A1B3C03 - Design / documentation not controlled	0	A2B2C03	A2B2C03 - Corrective maintenance LTA	1		
A1B4C01	A1B4C01 - Independent review of design / documentation LTA	0	A2B3C02	A2B3C02 – Inspection / testing LTA	1		
A1B4C02	A1B4C02 - Testing of design / installation LTA	1	A2B3C03	A2B3C03 – Post-maintenance / post-modification testing LTA	1		
A1B4C03	A1B4C03 - Independent inspection of design / installation LTA	0	A2B6C01	A2B6C01 – Defective or failed part	1		
A1B4C04	A1B4C04 - Acceptance of design / installation LTA	0	A2B6C04	A2B6C04 – End of life failure	1		

Cause Counts 08J

A1B5C01	A1B5C01 - Ergonomics LTA	1	A2B6C05	A2B6C05 – Electrical or instrument noise	1
A1B5C02	A1B5C02 - Physical environment LTA	0	A3B1C03	A3B1C03 - Incorrect performance due to mental lapse	1
A1B5C03	A1B5C03 - Natural environment LTA	0	A3B1C06	A3B1C06 - Wrong action selected based on similarity with other actions	1
A2B1C01	A2B1C01 - Calibration LTA	0	A3B1C07	A3B1C07 – Omission / repeating of steps based on assumptions for completion	1
A2B1C02	A2B1C02 - Equipment found outside acceptance criteria	0	A3B2C01	A3B2C01 - Strong rule incorrectly chosen over other rules	1
A2B2C01	A2B2C01 - Preventive maintenance for equipment LTA	0	A3B3C01	A3B3C01 – Attention was given to wrong issues	1
A2B2C02	A2B2C02 - Predictive maintenance LTA	0	A3B3C05	A3B3C05 - Incorrect assumption that a correlation existed between two or more facts	1
A2B2C03	A2B2C03 - Corrective maintenance LTA	1	A3B4C01	A3B4C01 – Individual's capability to perform work LTA	1
A2B2C04	A2B2C04 – Equipment history LTA	0	A3B4C02	A3B4C02 - Deliberate violation	1
A2B3C01	A2B3C01 – Start-up testing LTA	0	A4B1C04	A4B1C04 - Management follow-up or monitoring of activities did not identify problems	1
A2B3C02	A2B3C02 – Inspection / testing LTA	1	A4B2C02	A4B2C02 - Insufficient supervisory resources to provide necessary supervision	1
A2B3C03	A2B3C03 – Post-maintenance / post-modification testing LTA	1	A4B2C03	A4B2C03 - Insufficient manpower to support identified goal / objective	1
A2B4C01	A2B4C01 – Material handling LTA	0	A4B2C10	A4B2C10 – Means / method not provided for assuring adequate quality of contract services	1
A2B4C02	A2B4C02 – Material storage LTA	0	A4B4C11	A4B4C11 - Assignment did not consider worker's ingrained work patterns	1
A2B4C03	A2B4C03 – Material packaging LTA	0	A4B5C01	A4B5C01 – Problem identification methods did not identify need for change	1
A2B4C04	A2B4C04 – Material shipping LTA	0	A4B5C04	A4B5C04 - Risks / consequences associated with change not adequately reviewed / assessed	1
A2B4C05	A2B4C05 – Shelf life exceeded	0	A5B2C04	A5B2C04 - Equipment identification LTA	1
A2B4C06	A2B4C06 – Unauthorized material substitution	0	A5B2C07	A5B2C07 - Facts wrong / requirements not correct	1
A2B4C07	A2B4C07 – Marking / labeling LTA	0	A5B2C08	A5B2C08 – Incomplete / situation not covered	1
A2B5C01	A2B5C01 – Control of changes to procurement specification / purchase order LTA	0	A5B3C02	A5B3C02 - Not available or inconvenient for use	1

Cause Counts 08J

A2B5C02	A2B5C02 – Fabricated item did not meet requirements	0	A5B4C01	A5B4C01 - Communication between work groups LTA	1
A2B5C03	A2B5C03 – Incorrect item received	0	A5B4C02	A5B4C02 - Shift communications LTA	1
A2B5C04	A2B5C04 – Product acceptance requirements LTA	0	A6B1C03	A6B1C03 - Work incorrectly considered “skill-of-the-craft”	1
A2B6C01	A2B6C01 – Defective or failed part	1	A6B2C01	A6B2C01 - Practice or “hands-on” experience LTA	1
A2B6C02	A2B6C02 – Defective or failed material	0	A1B1C01	A1B1C01 - Design input cannot be met	0
A2B6C03	A2B6C03 – Defective weld, braze or soldering joint	0	A1B1C02	A1B1C02 - Design input obsolete	0
A2B6C04	A2B6C04 – End of life failure	1	A1B1C03	A1B1C03 - Design input not correct	0
A2B6C05	A2B6C05 – Electrical or instrument noise	1	A1B1C04	A1B1C04 - Necessary design input not available	0
A2B6C06	A2B6C06 – Contaminant	0	A1B2C01	A1B2C01 - Design output scope LTA	0
A3B1C01	A3B1C01 - Check of work was LTA	4	A1B2C03	A1B2C03 - Design output not correct	0
A3B1C02	A3B1C02 - Step was omitted due to distraction	2	A1B2C05	A1B2C05 - Design input not addressed in design output	0
A3B1C03	A3B1C03 - Incorrect performance due to mental lapse	1	A1B2C06	A1B2C06 - Drawing, specification or data error	0
A3B1C04	A3B1C04 - Infrequently performed steps were performed incorrectly	0	A1B2C07	A1B2C07 - Error in equipment or material selection	0
A3B1C05	A3B1C05 – Delay in time caused LTA actions	0	A1B2C09	A1B2C09 - Errors not recoverable	0
A3B1C06	A3B1C06 - Wrong action selected based on similarity with other actions	1	A1B3C01	A1B3C01 - Design / documentation not complete	0
A3B1C07	A3B1C07 – Omission / repeating of steps based on assumptions for completion	1	A1B3C02	A1B3C02 - Design / documentation not up-to-date	0
A3B2C01	A3B2C01 - Strong rule incorrectly chosen over other rules	1	A1B3C03	A1B3C03 - Design / documentation not controlled	0
A3B2C02	A3B2C02 - Signs to stop were ignored and step performed incorrectly	3	A1B4C01	A1B4C01 - Independent review of design / documentation LTA	0
A3B2C03	A3B2C03 - Too much activity was occurring and error made in problem solving	0	A1B4C03	A1B4C03 - Independent inspection of design / installation LTA	0

Cause Counts 08J

A3B2C04	A3B2C04 - Previous successes in use of rule reinforced continued use of rule	3	A1B4C04	A1B4C04 - Acceptance of design / installation LTA	0
A3B2C05	A3B2C05 - Situation incorrectly identified or represented resulting in wrong rule used	0	A1B5C02	A1B5C02 - Physical environment LTA	0
A3B3C01	A3B3C01 – Attention was given to wrong issues	1	A1B5C03	A1B5C03 - Natural environment LTA	0
A3B3C02	A3B3C02 - LTA conclusion based on sequencing of facts	0	A2B1C01	A2B1C01 - Calibration LTA	0
A3B3C03	A3B3C03 - Individual justified action by focusing on biased evidence	2	A2B1C02	A2B1C02 - Equipment found outside acceptance criteria	0
A3B3C04	A3B3C04 - LTA review based on assumption that process will not change	0	A2B2C01	A2B2C01 - Preventive maintenance for equipment LTA	0
A3B3C05	A3B3C05 - Incorrect assumption that a correlation existed between two or more facts	1	A2B2C02	A2B2C02 - Predictive maintenance LTA	0
A3B3C06	A3B3C06 - Individual underestimated the problem by using past events as basis	0	A2B2C04	A2B2C04 – Equipment history LTA	0
A3B4C01	A3B4C01 – Individual’s capability to perform work LTA	1	A2B3C01	A2B3C01 – Start-up testing LTA	0
A3B4C02	A3B4C02 - Deliberate violation	1	A2B4C01	A2B4C01 – Material handling LTA	0
A4B1C01	A4B1C01 - Management policy guidance / expectations not well-defined, understood or enforced	5	A2B4C02	A2B4C02 – Material storage LTA	0
A4B1C02	A4B1C02 - Job performance standards not adequately defined	0	A2B4C03	A2B4C03 – Material packaging LTA	0
A4B1C03	A4B1C03 – Management direction created insufficient awareness of the impact of actions on safety / reliability	0	A2B4C04	A2B4C04 – Material shipping LTA	0
A4B1C04	A4B1C04 - Management follow-up or monitoring of activities did not identify problems	1	A2B4C05	A2B4C05 – Shelf life exceeded	0
A4B1C05	A4B1C05 - Management assessment did not determine causes of previous event or known problem	0	A2B4C06	A2B4C06 – Unauthorized material substitution	0
A4B1C06	A4B1C06 - Previous industry or in-house experience was not effectively used to prevent recurrence	0	A2B4C07	A2B4C07 – Marking / labeling LTA	0

Cause Counts 08J

A4B1C07	A4B1C07 - Responsibility of personnel not well defined or personnel not held accountable	0	A2B5C01	A2B5C01 – Control of changes to procurement specification / purchase order LTA	0
A4B1C08	A4B1C08 - Corrective action responses to a known or repetitive problem was untimely	0	A2B5C02	A2B5C02 – Fabricated item did not meet requirements	0
A4B1C09	A4B1C09 - Corrective action for previously identified problem or event was not adequate to prevent recurrence	0	A2B5C03	A2B5C03 – Incorrect item received	0
A4B2C01	A4B2C01 - Too many administrative duties assigned to immediate supervisors	0	A2B5C04	A2B5C04 – Product acceptance requirements LTA	0
A4B2C02	A4B2C02 - Insufficient supervisory resources to provide necessary supervision	1	A2B6C02	A2B6C02 – Defective or failed material	0
A4B2C03	A4B2C03 - Insufficient manpower to support identified goal / objective	1	A2B6C03	A2B6C03 – Defective weld, braze or soldering joint	0
A4B2C04	A4B2C04 - Resources not provided to assure adequate training was provided / maintained	0	A2B6C06	A2B6C06 – Contaminant	0
A4B2C05	A4B2C05 - Needed resource changes not approved / funded	0	A3B1C04	A3B1C04 - Infrequently performed steps were performed incorrectly	0
A4B2C06	A4B2C06 - Means not provided to assure procedures / documents / records were of adequate quality and up-to-date	0	A3B1C05	A3B1C05 – Delay in time caused LTA actions	0
A4B2C07	A4B2C07 - Means not provided for assuring adequate availability of appropriate materials / tools	0	A3B2C03	A3B2C03 - Too much activity was occurring and error made in problem solving	0
A4B2C08	A4B2C08 - Means not provided for assuring adequate equipment quality, reliability, or operability	0	A3B2C05	A3B2C05 - Situation incorrectly identified or represented resulting in wrong rule used	0
A4B2C09	A4B2C09 - Personnel selection did not assure match of worker motivations / job descriptions	0	A3B3C02	A3B3C02 - LTA conclusion based on sequencing of facts	0
A4B2C10	A4B2C10 – Means / method not provided for assuring adequate quality of contract services	1	A3B3C04	A3B3C04 - LTA review based on assumption that process will not change	0
A4B3C01	A4B3C01 - Insufficient time for worker to prepare task	0	A3B3C06	A3B3C06 - Individual underestimated the problem by using past events as basis	0
A4B3C02	A4B3C02 - Insufficient time allotted for task	0	A4B1C02	A4B1C02 - Job performance standards not adequately defined	0

Cause Counts 08J

A4B3C03	A4B3C03 - Duties not well-distributed among personnel	0	A4B1C03	A4B1C03 – Management direction created insufficient awareness of the impact of actions on safety / reliability	0
A4B3C04	A4B3C04 - Too few workers assigned to task	0	A4B1C05	A4B1C05 - Management assessment did not determine causes of previous event or known problem	0
A4B3C05	A4B3C05 - Insufficient number of trained or experienced workers assigned to task	0	A4B1C06	A4B1C06 - Previous industry or in-house experience was not effectively used to prevent recurrence	0
A4B3C06	A4B3C06 - Planning not coordinated with inputs from walkdowns / task analysis	2	A4B1C07	A4B1C07 - Responsibility of personnel not well defined or personnel not held accountable	0
A4B3C07	A4B3C07 - Job scoping did not identify potential task interruptions and/or environmental stress	0	A4B1C08	A4B1C08 - Corrective action responses to a known or repetitive problem was untimely	0
A4B3C08	A4B3C08 - Job scoping did not identify special circumstances and/or conditions	2	A4B1C09	A4B1C09 - Corrective action for previously identified problem or event was not adequate to prevent recurrence	0
A4B3C09	A4B3C09 - Work planning not coordinated with all departments involved in task	0	A4B2C01	A4B2C01 - Too many administrative duties assigned to immediate supervisors	0
A4B3C10	A4B3C10 – Problem performing repetitive tasks and/or subtasks	0	A4B2C04	A4B2C04 - Resources not provided to assure adequate training was provided / maintained	0
A4B3C11	A4B3C11 - Inadequate work package preparation	3	A4B2C05	A4B2C05 - Needed resource changes not approved / funded	0
A4B4C01	A4B4C01 - Tasks and individual accountability not made clear to worker	0	A4B2C06	A4B2C06 - Means not provided to assure procedures / documents / records were of adequate quality and up-to-date	0
A4B4C02	A4B4C02 – Progress / status of task not adequately tracked	0	A4B2C07	A4B2C07 - Means not provided for assuring adequate availability of appropriate materials / tools	0
A4B4C03	A4B4C03 - Appropriate level of in-task supervision not determined prior to task	0	A4B2C08	A4B2C08 - Means not provided for assuring adequate equipment quality, reliability, or operability	0
A4B4C04	A4B4C04 - Direct supervisory involvement in task interfered with overview role	0	A4B2C09	A4B2C09 - Personnel selection did not assure match of worker motivations / job descriptions	0
A4B4C05	A4B4C05 - Emphasis on schedule exceeded emphasis on methods / doing a good job	0	A4B3C01	A4B3C01 - Insufficient time for worker to prepare task	0
A4B4C06	A4B4C06 - Job performance and self-checking standards not properly communicated	0	A4B3C02	A4B3C02 - Insufficient time allotted for task	0

Cause Counts 08J

A4B4C07	A4B4C07 - Too many concurrent tasks assigned to worker	0	A4B3C03	A4B3C03 - Duties not well-distributed among personnel	0
A4B4C08	A4B4C08 - Frequent job or task "shuffling"	0	A4B3C04	A4B3C04 - Too few workers assigned to task	0
A4B4C09	A4B4C09 - Assignment did not consider worker's need to use higher-order skills	0	A4B3C05	A4B3C05 - Insufficient number of trained or experienced workers assigned to task	0
A4B4C10	A4B4C10 - Assignment did not consider effects of worker's previous task	0	A4B3C07	A4B3C07 - Job scoping did not identify potential task interruptions and/or environmental stress	0
A4B4C11	A4B4C11 - Assignment did not consider worker's ingrained work patterns	1	A4B3C09	A4B3C09 - Work planning not coordinated with all departments involved in task	0
A4B4C12	A4B4C12 - Contact with personnel too infrequent to detect work habit / attitude changes	0	A4B3C10	A4B3C10 – Problem performing repetitive tasks and/or subtasks	0
A4B4C13	A4B4C13 - Provided feedback on negative performance but not on positive performance	0	A4B4C01	A4B4C01 - Tasks and individual accountability not made clear to worker	0
A4B5C01	A4B5C01 — Problem identification methods did not identify need for change	1	A4B4C02	A4B4C02 – Progress / status of task not adequately tracked	0
A4B5C02	A4B5C02 - Change not implemented in a timely manner	0	A4B4C03	A4B4C03 - Appropriate level of in-task supervision not determined prior to task	0
A4B5C03	A4B5C03 - Inadequate vendor support of change	0	A4B4C04	A4B4C04 - Direct supervisory involvement in task interfered with overview role	0
A4B5C04	A4B5C04 - Risks / consequences associated with change not adequately reviewed / assessed	1	A4B4C05	A4B4C05 - Emphasis on schedule exceeded emphasis on methods / doing a good job	0
A4B5C05	A4B5C05 - System interactions not considered	0	A4B4C06	A4B4C06 - Job performance and self-checking standards not properly communicated	0
A4B5C06	A4B5C06 – Personnel / department interactions not considered	0	A4B4C07	A4B4C07 - Too many concurrent tasks assigned to worker	0
A4B5C07	A4B5C07 - Effect of change on schedules not adequately addressed	0	A4B4C08	A4B4C08 - Frequent job or task "shuffling"	0
A4B5C08	A4B5C08 - Change-related training / retraining not performed or not adequate	0	A4B4C09	A4B4C09 - Assignment did not consider worker's need to use higher-order skills	0
A4B5C09	A4B5C09 - Change-related documents not developed or revised	0	A4B4C10	A4B4C10 - Assignment did not consider effects of worker's previous task	0

Cause Counts 08J

A4B5C10	A4B5C10 - Change-related equipment not provided or not revised	0	A4B4C12	A4B4C12 - Contact with personnel too infrequent to detect work habit / attitude changes	0
A4B5C11	A4B5C11 - Changes not adequately communicated	0	A4B4C13	A4B4C13 - Provided feedback on negative performance but not on positive performance	0
A4B5C12	A4B5C12 - Change not identifiable during task	0	A4B5C02	A4B5C02 - Change not implemented in a timely manner	0
A4B5C13	A4B5C13 – Accuracy / effectiveness of change not verified or not validated	0	A4B5C03	A4B5C03 - Inadequate vendor support of change	0
A5B1C01	A5B1C01 - Format deficiencies	0	A4B5C05	A4B5C05 - System interactions not considered	0
A5B1C02	A5B1C02 - Improper referencing or branching	0	A4B5C06	A4B5C06 – Personnel / department interactions not considered	0
A5B1C03	A5B1C03 - Checklist LTA	0	A4B5C07	A4B5C07 - Effect of change on schedules not adequately addressed	0
A5B1C04	A5B1C04 - Deficiencies in user aids (charts, etc.)	0	A4B5C08	A4B5C08 - Change-related training / retraining not performed or not adequate	0
A5B1C05	A5B1C05 - Recent changes not made apparent to user	0	A4B5C09	A4B5C09 - Change-related documents not developed or revised	0
A5B1C06	A5B1C06 - Instruction step / information in wrong sequence	0	A4B5C10	A4B5C10 - Change-related equipment not provided or not revised	0
A5B1C07	A5B1C07 – Unclear / complex wording or grammar	0	A4B5C11	A4B5C11 - Changes not adequately communicated	0
A5B2C01	A5B2C01 - Limit inaccuracies	0	A4B5C12	A4B5C12 - Change not identifiable during task	0
A5B2C02	A5B2C02 - Difficult to implement	0	A4B5C13	A4B5C13 – Accuracy / effectiveness of change not verified or not validated	0
A5B2C03	A5B2C03 – Data / computations wrong / incomplete	0	A5B1C01	A5B1C01 - Format deficiencies	0
A5B2C04	A5B2C04 - Equipment identification LTA	1	A5B1C02	A5B1C02 - Improper referencing or branching	0
A5B2C05	A5B2C05 - Ambiguous instructions / requirements	2	A5B1C03	A5B1C03 - Checklist LTA	0
A5B2C06	A5B2C06 - Typographical error	0	A5B1C04	A5B1C04 - Deficiencies in user aids (charts, etc.)	0
A5B2C07	A5B2C07 - Facts wrong / requirements not correct	1	A5B1C05	A5B1C05 - Recent changes not made apparent to user	0
A5B2C08	A5B2C08 – Incomplete / situation not covered	1	A5B1C06	A5B1C06 - Instruction step / information in wrong sequence	0
A5B2C09	A5B2C09 - Wrong revision used	0	A5B1C07	A5B1C07 – Unclear / complex wording or grammar	0

Cause Counts 08J

A5B3C01	A5B3C01 - Lack of written communication	0	A5B2C01	A5B2C01 - Limit inaccuracies	0
A5B3C02	A5B3C02 - Not available or inconvenient for use	1	A5B2C02	A5B2C02 - Difficult to implement	0
A5B4C01	A5B4C01 - Communication between work groups LTA	1	A5B2C03	A5B2C03 – Data / computations wrong / incomplete	0
A5B4C02	A5B4C02 - Shift communications LTA	1	A5B2C06	A5B2C06 - Typographical error	0
A5B4C03	A5B4C03 - Correct terminology not used	0	A5B2C09	A5B2C09 - Wrong revision used	0
A5B4C04	A5B4C04 – Verification / repeat back not used	0	A5B3C01	A5B3C01 - Lack of written communication	0
A5B4C05	A5B4C05 - Information sent but not understood	0	A5B4C03	A5B4C03 - Correct terminology not used	0
A5B4C06	A5B4C06 - Suspected problems not communicated to supervision	0	A5B4C04	A5B4C04 – Verification / repeat back not used	0
A5B4C07	A5B4C07 - No communication method available	0	A5B4C05	A5B4C05 - Information sent but not understood	0
A6B1C01	A6B1C01 - Decision not to train	0	A5B4C06	A5B4C06 - Suspected problems not communicated to supervision	0
A6B1C02	A6B1C02 - Training requirements not identified	0	A5B4C07	A5B4C07 - No communication method available	0
A6B1C03	A6B1C03 - Work incorrectly considered “skill-of-the-craft”	1	A6B1C01	A6B1C01 - Decision not to train	0
A6B2C01	A6B2C01 - Practice or “hands-on” experience LTA	1	A6B1C02	A6B1C02 - Training requirements not identified	0
A6B2C02	A6B2C02 - Testing LTA	0	A6B2C02	A6B2C02 - Testing LTA	0
A6B2C03	A6B2C03 - Refresher training LTA	0	A6B2C03	A6B2C03 - Refresher training LTA	0
A6B2C04	A6B2C04 - Inadequate presentation	0	A6B2C04	A6B2C04 - Inadequate presentation	0
A6B3C01	A6B3C01 - Training objectives LTA	0	A6B3C01	A6B3C01 - Training objectives LTA	0
A6B3C02	A6B3C02 - Inadequate content	0	A6B3C02	A6B3C02 - Inadequate content	0
A6B3C03	A6B3C03 - Training on new work methods LTA	0	A6B3C03	A6B3C03 - Training on new work methods LTA	0
A6B3C04	A6B3C04 - Performance standards LTA	0	A6B3C04	A6B3C04 - Performance standards LTA	0
A7B1C01	A7B1C01 - Weather or ambient conditions LTA	0	A7B1C01	A7B1C01 - Weather or ambient conditions LTA	0

Cause Counts 08J

A7B1C02	A7B1C02 – Power failure or transient	0	A7B1C02	A7B1C02 – Power failure or transient	0
A7B1C03	A7B1C03 – External fire or explosion	0	A7B1C03	A7B1C03 – External fire or explosion	0
A7B1C04	A7B1C04 – Other natural phenomena LTA	0	A7B1C04	A7B1C04 – Other natural phenomena LTA	0
A7B2C01	A7B2C01 – Legacy contamination	0	A7B2C01	A7B2C01 – Legacy contamination	0
A7B2C02	A7B2C02 – Source unknown	0	A7B2C02	A7B2C02 – Source unknown	0