
RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

9/23/2016

**SAFETY SYSTEM DIGITAL PLATFORM
- MELTAC (MITSUBISHI ELECTRIC TOTAL ADVANCED CONTROLLER) -
TOPICAL REPORT**

Mitsubishi Electric Corporation

TAC NO.: MF4228
RAI NO.: #1
DATE OF RAI ISSUE: 6/29/2016

QUESTION NO.: 4 for JEXU-1041-1015, "MELTAC Platform ISG-04 Conformance Analysis"

With regards to the response to Staff Position 7, The NRC staff requires additional information on the characteristics of a predefined data set used in MELTAC communication interfaces to support its safety evaluation. This information should include message formatting and protocol, message identification, status information, as well as signal attributes such as point of signal origin and destination. Include a discussion of how unrecognized messages are handled.

ANSWER:
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Impact on Topical Report

There is no impact on the Topical Report.

Impact on Technical Report

Section 3.1.7 of JEXU-1041-1015, "MELTAC Platform ISG-04 Conformance Analysis" will be revised by adding the description above.

3.1.7 Staff Position 7

Requirement
Only predefined data sets should be used by the receiving system. Unrecognized messages and data should be identified and dispositioned by the receiving system in accordance with the pre-specified design requirements. Data from unrecognized messages must not be used within the safety logic executed by the safety function processor. Message format and protocol should be pre-determined. Every message should have the same message field structure and sequence, including message identification, status information, data bits, etc. in the same locations in every message. Every datum should be included in every transmit cycle, whether it has changed since the previous transmission or not, to ensure deterministic system behavior.
Analysis

ISG-04-4