

Certificate of Compliance

Safety Instrumented System

Holder: TOTAL Cambodia

Safety Instrumented System: Endress+Hauser Process Solutions AG - Overfill Prevention System

Basis of Certification: IEC 61511:2013
Type Approval: 211.148.3

Certification Include(s):

- ☒ Management of functional safety
- ☒ Safety requirements specification
- ☒ Hardware requirements
- ☒ Reliability requirements
- ☒ Logic requirements
- ☒ User documentation
- ☒ Factory acceptance testing
- ☐ Integrated factory acceptance testing
- ☒ Site acceptance testing

Functional Safety Data:

Safety function(s)	AOPS - Automated Overfill Prevention System
Safety Manual	See report

Certification Results:

Risknowlogy certifies that the above Safety Instrumented System meets the requirements of the Basis of Certification for the selected assessment(s). The Risknowlogy report 211.149.1 and safety manual are an integral part of this certificate.

Certificate Number: 211.149.2

Issue Date: 2016-05-31

Expiry Date: After modification of Safety Related System

Certifier:



KHSOM Terminal

Application Software: TOTAL_KHM_KHSOM_17120044_V1_01_01.ACD

Tank	Type	Sensor architecture	Final element architecture
Tank 1	AOPS	1001 FTL51+FEL57+FTL325P	1001 SI-2-Q61-011-01-30-AA + KHL510
Tank 2	AOPS	1001 FTL51+FEL57+FTL325P	1001 SI-2-Q61-011-01-30-AA + KHL510
Tank 3	AOPS	1001 FTL51+FEL57+FTL325P	1001 SI-2-Q61-011-01-30-AA + KHL510
Tank 4	AOPS	1001 FTL51+FEL57+FTL325P	1001 SI-2-Q61-011-01-30-AA + KHL510
Tank 5	AOPS	1001 FTL51+FEL57+FTL325P	1001 SI-2-Q61-011-01-30-AA + KHL510
Tank 6	AOPS	1001 FTL51+FEL57+FTL325P	1001 SI-2-Q61-011-01-30-AA + KHL510

PPIA Depot

Application Software: TOTAL_KHM_PPIA_17120044_V1_01_00.ACD

Tank	Type	Sensor architecture	Final element architecture
Tank 1	AOPS	1001 FTL51+FEL57+FTL325P	1001 SI-2-Q60-011-01-30-AA + KHL510
Tank 2	AOPS	1001 FTL51+FEL57+FTL325P	1001 SI-2-Q60-011-01-30-AA + KHL510

SRIA Depot

Application Software: TOTAL_KHM_SRIA_17120044_V1_01_00.ACD

Tank	Type	Sensor architecture	Final element architecture
Tank 1	AOPS	1001 FTL51+FEL57+FTL325P	1001 SI-2-Q60-011-01-30-AA + KHL510
Tank 2	AOPS	1001 FTL51+FEL57+FTL325P	1001 SI-2-Q60-011-01-30-AA + KHL510