

General Inspection plan Title Control Equipment and Process Instrumentation [Rack mounted Radiation Monitoring equipment]	Document KBE IP – 104:1.2
	Issue 4
	Date 2020-04-20
	Supersedes Issue 3

Inspection according to codes below					
<u>Inspection Specification</u> (1st letter)	<u>Inspection performed and documented by</u> (2nd letter)	<u>Inspection supervised by</u> (3rd letter)	<u>Documentation</u> (4th letter)		
A: Routine 100% Insp. S: Sample Inspection T: Type Inspection	E: Manufacturer D: Supplier B: Purchaser	B: Purchaser C: Inspector engaged by purchaser D: Supplier	R: Technical Report P: Inspection Record I: Certificate		
Examination Procedures	Codes	Inspection Procedure	Inspection Record	Deviation Report/Remark	
Type Inspection					
T1	Environmental verification for normal operating conditions KBE EP-151	TE-R			
T2	Verification of function and performance KBE EP-152	TE-R			
T3	Electromagnetic compatibility verification KBE EP-153	TE-R			
T4	Seismic qualification KBE EP-147	TE-R			
T5	Withstand voltage test KBE EP-102	TE-R			
T6	Ability to withstand variation in power supply KBE EP-108	TE-R			
T7	Long-term stability of process instruments and control equipment KBE EP-111	TE-R			
T8	Temperature dependence of activity measurement channels Note 1	TE-R			
T9	Performance of scintillation measurement channels Note 1	TE-R			
T10	Calibration of SPG detectors Note 1	TE-R			
T11	Type inspection certification KBE EP-180	TE-R			
T12					
T13					
T14					
Notes					
1. The test shall be carried out in accordance with the Manufacturers standard procedure, subject to prior review and approval by the Purchaser.					

Examination Procedures		Codes	Inspection Procedure	Inspection Record	Deviation Report/Remark
Routine Inspection					
R1	Visual inspection KBE EP-101	AEBI			
R2	Visual inspection KBE EP-190	AE-P			
R3	Withstand voltage test KBE EP-102	AE-I			
R4	Ability to withstand variation in power supply KBE EP-108	AE-I			
R5	Checking of wiring KBE EP-113	AE-I			
R6	Insulation resistance measurement KBE EP-114	AE-I			
R7	Burn in test KBE EP-104	AE-I			
R8	Inspection of protective earth continuity KBE EP-150	AE-I			
R9	Long-term stability of process instruments and control equipment KBE EP-111	AE-I			
R10	Calibration of radiation monitoring equipment Note 1	AE-P			
R11	Calibration, measurement of radioactivity in gases Note 1	AE-P			
R12	Energy resolution in radiation monitoring detector Note 1	AE-P			
R13	Performance of scintillation measurement channels Note 1	AE-P			
R14	Calibration of SPG detectors Note 1	AE-P			
R15	Functional performance Note 1	AE-I			
R16	Quality and identity certification KBE EP-180	AE-I			
R17	Delivery Release Inspection Note 2 KBE EP-191	AEBP			
R18	Factory Acceptance Test (FAT) Note 2, 3, 4 KBE EP-185	AEBR			
R19	Site Acceptance Test (SAT) Note 2, 3, 4 KBE EP-186	AEBR			
R20	Operating Experience KBE EP-187	AE-R			
Notes					
<ol style="list-style-type: none"> The test shall be carried out in accordance with the Manufacturers standard procedure, subject to prior review and approval by the Purchaser. Inspection witnessed by Purchaser in accordance with KBE 100. Alternative is according to Manufacturers procedure, reviewed and approved by the Purchaser. For equipment with programmable electronics FAT and SAT are to be performed according to applicable Inspection Plans KBE IP-106:x-y. 					