

TABLE 3.2.B
INSTRUMENTATION THAT INITIATES OR CONTROLS THE CORE AND CONTAINMENT COOLING SYSTEMS

Minimum No. Operable Trip Sys(1)	Function	Trip Level Setting	Action	Remarks
2	Instrument Channel - Reactor Low Water Level	≥ 470" above vessel zero.	A	1. Below trip setting initiated HPCI.
2	Instrument Channel - Reactor Low Water Level	≥ 470" above vessel zero.	A	1. Multiplier relays initiate RCIC.
2	Instrument Channel - Reactor Low Water Level (LIS-3-58A-D, SW #1)	≥ 378" above vessel zero.	A	1. Below trip setting initiates CSS. Multiplier relays initiate LPCI.
2(16)	Instrument Channel - Reactor Low Water Level (LIS-3-58A-D, SW #2)	≥ 378" above vessel zero.	A	2. Multiplier relay from CSS initiates accident signal (15). 1. Below trip settings, in conjunction with drywell high pressure, low water level permissive, 120 sec. delay timer and CSS or RHR pump running, initiates ADS.
1(16)	Instrument Channel - Reactor Low Water Level Permissive (LIS-3-184 & 185, SW #1)	≥ 544" above vessel zero.	A	1. Below trip setting permissive for initiating signals on ADS.
1	Instrument Channel - Reactor Low Water Level (LITS-3-52 and 62, SW #1)	≥ 312 5/16" above vessel zero (2/3 core height)	A	1. Below trip setting prevents inadvertent operation of containment spray during accident condition.

BFN-Unit 1

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 DCD

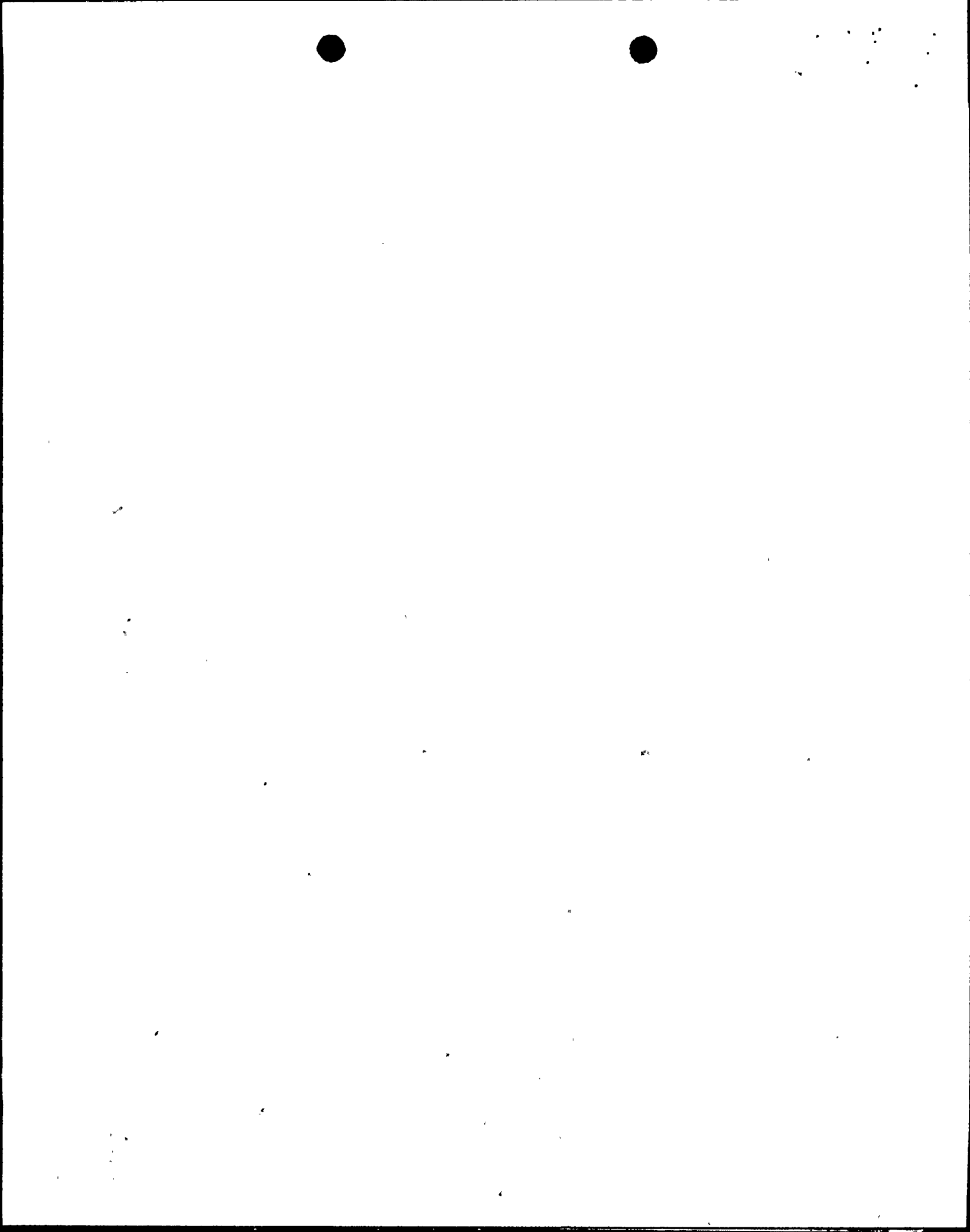


TABLE 3.2.B
INSTRUMENTATION THAT INITIATES OR CONTROLS THE CORE AND CONTAINMENT COOLING SYSTEMS

Minimum No. Operable Per Trip Sys(1)	Function	Trip Level Setting	Action	Remarks
2	Instrument Channel - Reactor Low Water Level (LIS-3-58A-D)	≥ 470" above vessel zero.	A	1. Below trip setting initiated HPCI.
2	Instrument Channel - Reactor Low Water Level (LIS-3-58A-D)	≥ 470" above vessel zero.	A	1. Multiplier relays initiate RCIC.
2	Instrument Channel - Reactor Low Water Level (LIS-3-58A-D)	≥ 378" above vessel zero.	A	1. Below trip setting initiates CSS. Multiplier relays initiate LPCI. 2. Multiplier relay from CSS initiates accident signal (15).
2(16)	Instrument Channel - Reactor Low Water Level (LIS-3-58A-D)	≥ 378" above vessel zero.	A	1. Below trip settings, in conjunction with drywell high pressure, low water level permissive, 120 sec. delay timer and CSS or RHR pump running, initiates ADS.
1(16)	Instrument Channel - Reactor Low Water Level Permissive (LIS-3-184, 185)	≥ 544" above vessel zero.	A	1. Below trip setting permissive for initiating signals on ADS.
1	Instrument Channel - Reactor Low Water Level (LIS-3-52 and 62)	≥ 312 5/16" above vessel zero. A (2/3 core height)	A	1. Below trip setting prevents inadvertent operation of containment spray during accident condition.

BFN-Unit 2

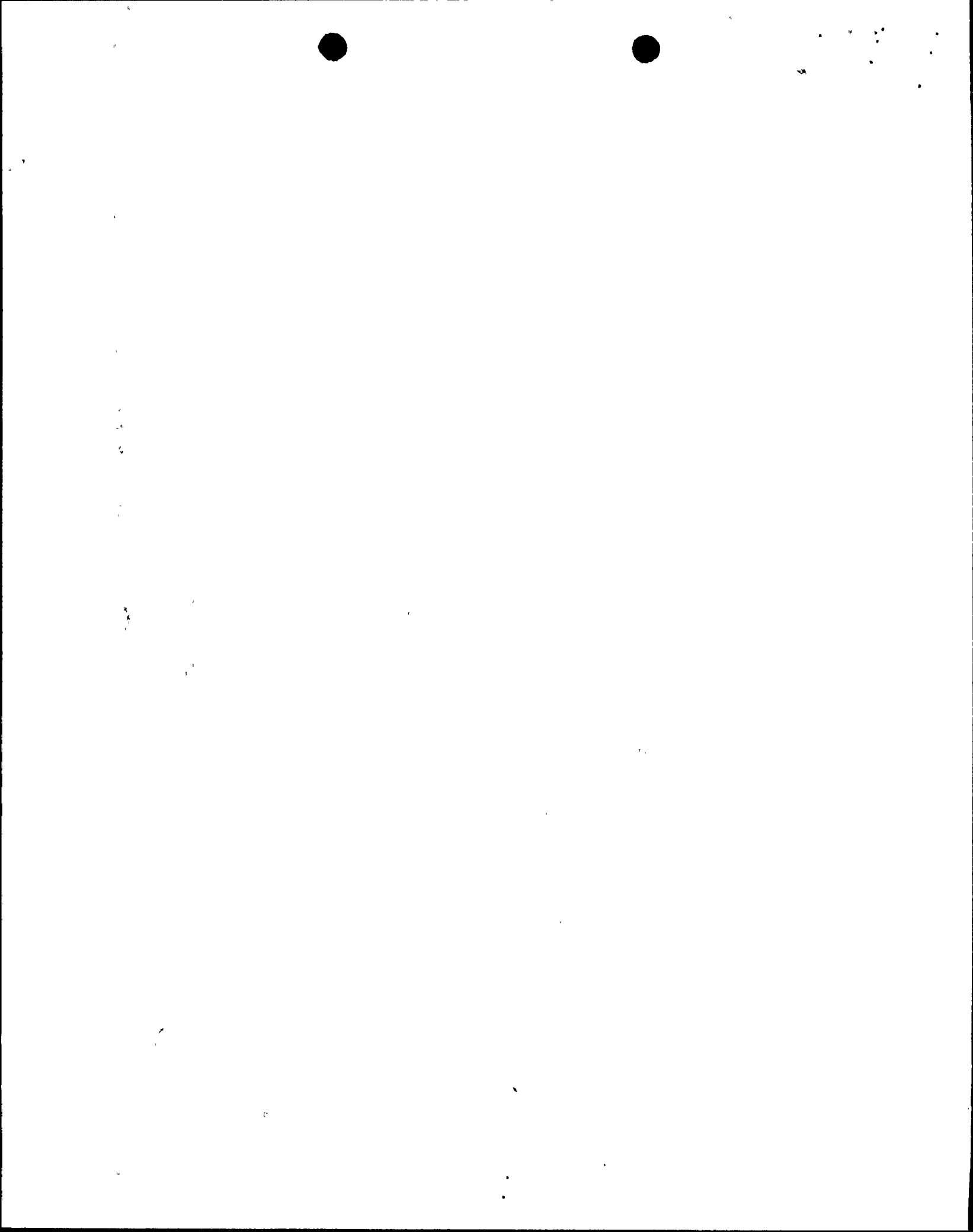


TABLE 3.2.B
INSTRUMENTATION THAT INITIATES OR CONTROLS THE CORE AND CONTAINMENT COOLING SYSTEMS

Minimum No. Operable Per Trip Sys(1)	Function	Trip Level Setting	Action	Remarks
2	Instrument Channel - Reactor Low Water Level (LIS-3-58A-D)	≥ 470" above vessel zero.	A	1. Below trip setting initiated HPCI.
2	Instrument Channel - Reactor Low Water Level (LIS-3-58A-D)	≥ 470" above vessel zero.	A	1. Multiplier relays initiate RCIC.
2	Instrument Channel - Reactor Low Water Level (LIS-3-58A-D)	≥ 378" above vessel zero.	A	1. Below trip setting initiates CSS. Multiplier relays initiate LPCI. 2. Multiplier relay from CSS initiates accident signal (15).
2(16)	Instrument Channel - Reactor Low Water Level (LIS-3-58A-D)	≥ 378" above vessel zero.	A	1. Below trip settings, in conjunction with drywell high pressure, low water level permissive, 120 sec. delay timer and CSS or RHR pump running, initiates ADS.
1(16)	Instrument Channel - Reactor Low Water Level Permissive (LIS-3-184, 185)	≥ 544" above vessel zero.	A	1. Below trip setting permissive for initiating signals on ADS.
1	Instrument Channel - Reactor Low Water Level (LIS-3-52 and 62)	≥ 312 5/16" above vessel zero. A (2/3 core height)	A	1. Below trip setting prevents inadvertent operation of containment spray during accident condition.

BFH-Unit 3

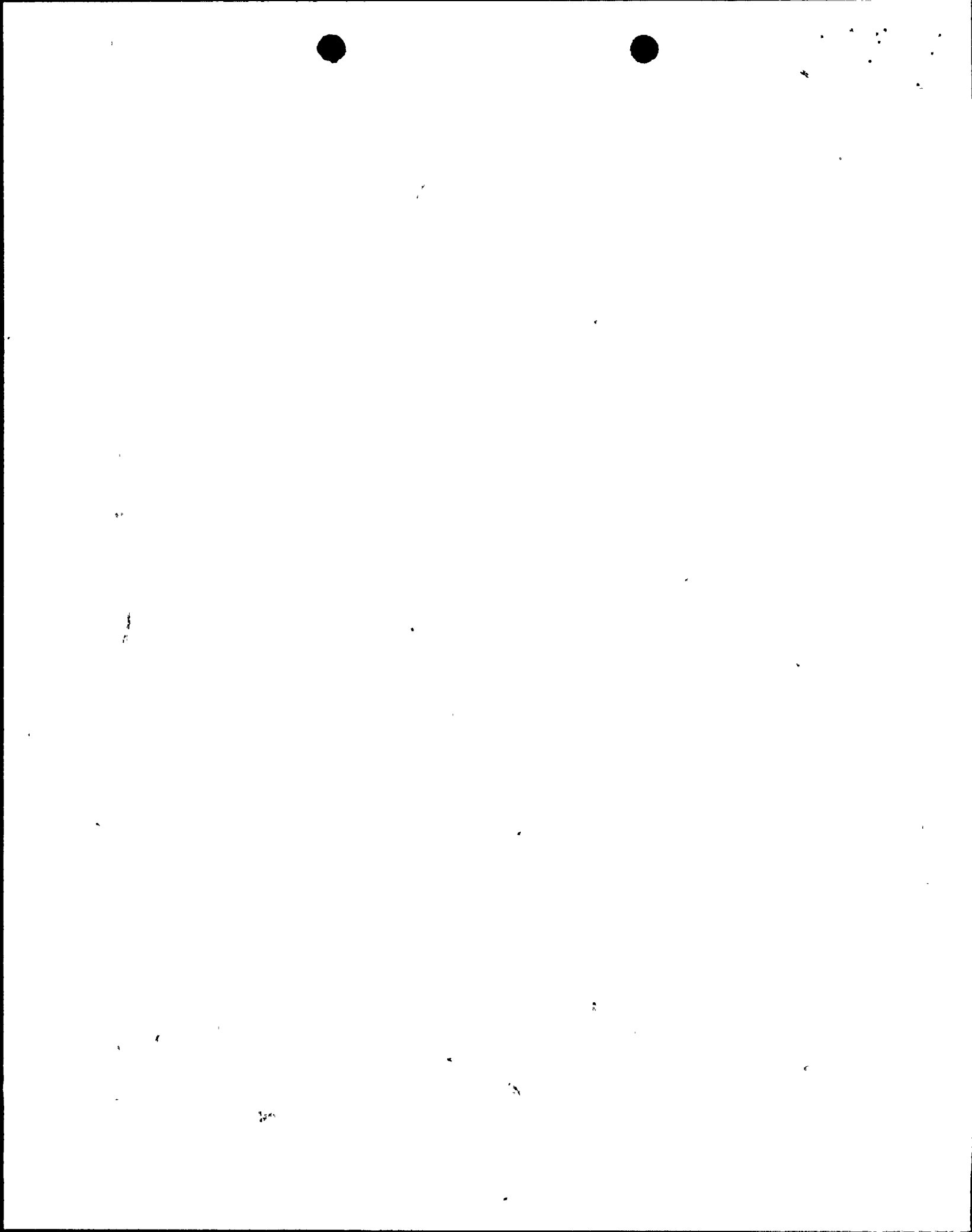


TABLE 4.2.K
Radioactive Gaseous Effluent Instrumentation Surveillance

<u>Instrument</u>	<u>Instrument Check</u>	<u>Source Check</u>	<u>Channel Calibration</u>	<u>Functional Test</u>
1. STACK				
a. Noble Gas Monitor ⁽⁵⁾	D	M	R ⁽¹⁾	Q ⁽²⁾
b. Iodine Cartridge	W	NA	NA	NA
c. Particulate Filter	W	NA	NA	NA
d. Sampler Flow Abnormal	D	NA	R	Q
e. Stack Flow meter	D	NA	R	Q
2. REACTOR/TURBINE BLDG VENT				
a. Noble Gas Monitor ⁽⁶⁾	D	M	R ⁽¹⁾	Q ⁽²⁾
b. Iodine Sampler	W	NA	NA	NA
c. Particulate Sampler	W	NA	NA	NA
d. Sampler Flow meter	D	NA	R	Q
3. TURBINE BLDG EXHAUST				
a. Noble Gas Monitor ⁽⁶⁾	D	M	R ⁽¹⁾	Q ⁽²⁾
b. Iodine Sampler	W	NA	NA	NA
c. Particulate Sampler	W	NA	NA	NA
d. Sampler Flow meter	D	NA	R	Q
4. RADWASTE BLDG VENT				
a. Noble Gas Monitor ⁽⁶⁾	D	M	R ⁽¹⁾	Q ⁽²⁾
b. Iodine Sampler	W	NA	NA	NA
c. Particulate Sampler	W	NA	NA	NA
d. Sampler Flow meter	D	NA	R	Q
5. OFF GAS HYDROGEN ANALYZER (H ₂ A, H ₂ B)	D	NA	R ⁽³⁾	Q
6. OFF GAS POST TREATMENT ⁽⁵⁾				
a. Noble Gas Activity Monitor	D	M	R ⁽¹⁾	Q ⁽⁴⁾
b. Sample Flow Abnormal	D	NA	R	Q ⁽²⁾

BFH-Unit 1

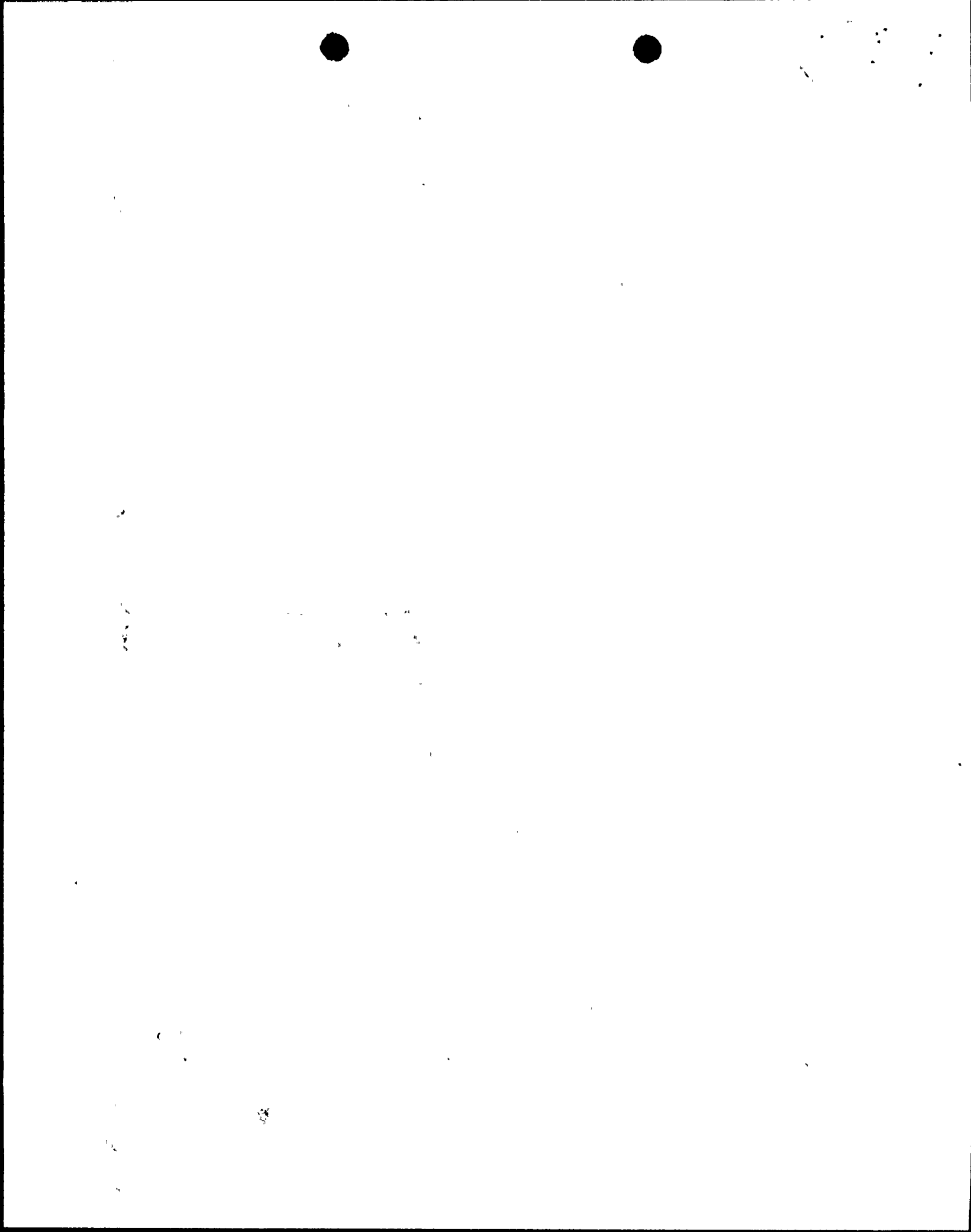


TABLE 4.2.K
Radioactive Gaseous Effluent Instrumentation Surveillance

<u>Instrument</u>	<u>Instrument Check</u>	<u>Source Check</u>	<u>Channel Calibration</u>	<u>Functional Test</u>
1. STACK				
a. Noble Gas Monitor ⁽⁵⁾	D	M	R ⁽¹⁾	Q ⁽²⁾
b. Iodine Cartridge	W	NA	NA	NA
c. Particulate Filter	W	NA	NA	NA
d. Sampler Flow Abnormal	D	NA	R	Q
e. Stack Flow meter	D	NA	R	Q
2. REACTOR/TURBINE BLDG VENT				
a. Noble Gas Monitor ⁽⁶⁾	D	M	R ⁽¹⁾	Q ⁽²⁾
b. Iodine Sampler	W	NA	NA	NA
c. Particulate Sampler	W	NA	NA	NA
d. Sampler Flow meter	D	NA	R	Q
3. TURBINE BLDG EXHAUST				
a. Noble Gas Monitor ⁽⁶⁾	D	M	R ⁽¹⁾	Q ⁽²⁾
b. Iodine Sampler	W	NA	NA	NA
c. Particulate Sampler	W	NA	NA	NA
d. Sampler Flow meter	D	NA	R	Q
4. RADWASTE BLDG VENT				
a. Noble Gas Monitor ⁽⁶⁾	D	M	R ⁽¹⁾	Q ⁽²⁾
b. Iodine Sampler	W	NA	NA	NA
c. Particulate Sampler	W	NA	NA	NA
d. Sampler Flow meter	D	NA	R	Q
5. OFF GAS HYDROGEN ANALYZER (H ₂ A, H ₂ B)	D	NA	R ⁽³⁾	Q
6. OFF GAS POST TREATMENT ⁽⁵⁾				
a. Noble Gas Activity Monitor	D	M	R ⁽¹⁾	Q ⁽⁴⁾
b. Sample Flow Abnormal	D	NA	R	Q ⁽²⁾

BFH-Unit 2

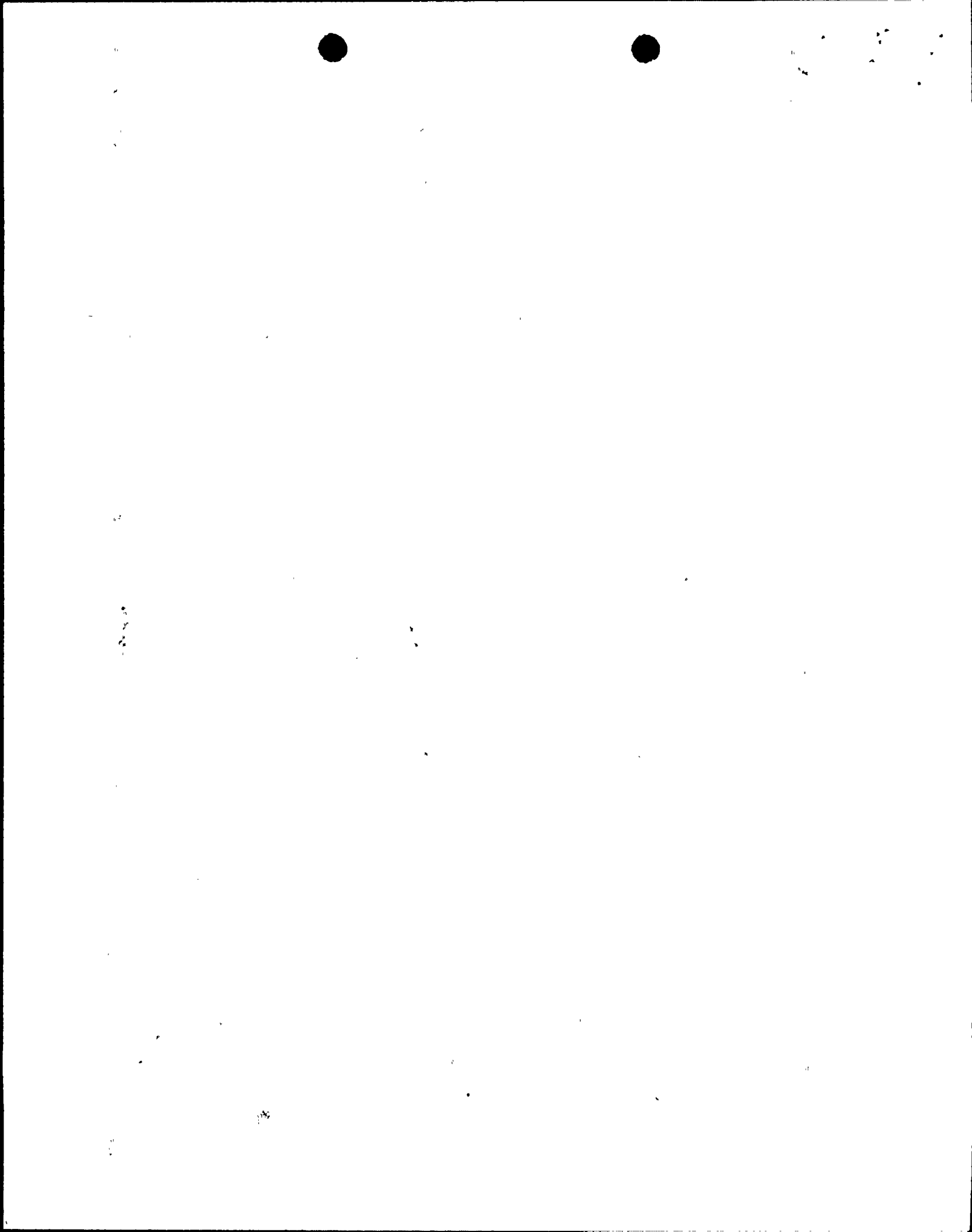
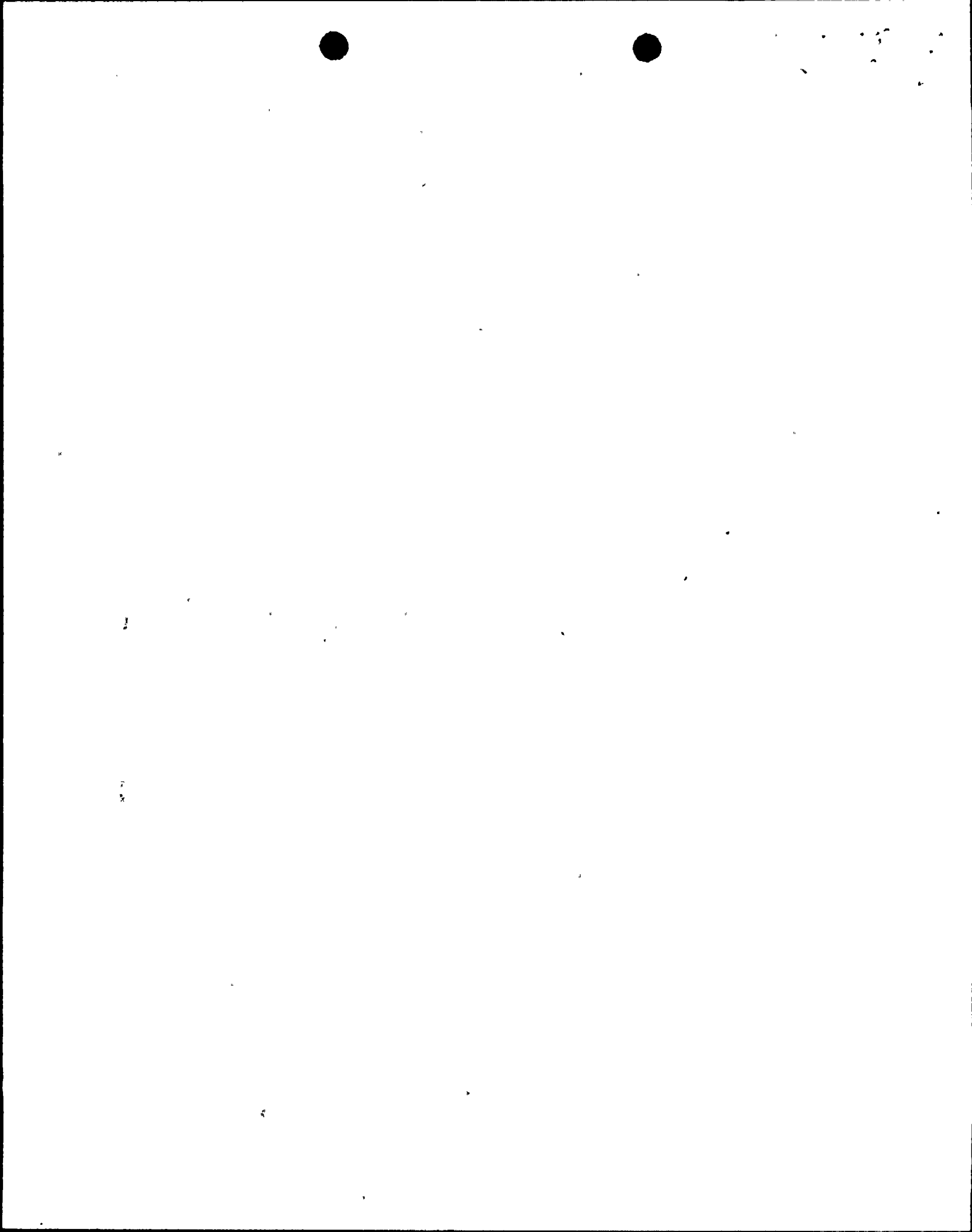


TABLE 4.2.K
Radioactive Gaseous Effluent Instrumentation Surveillance

<u>Instrument</u>	<u>Instrument Check</u>	<u>Source Check</u>	<u>Channel Calibration</u>	<u>Functional Test</u>
1. STACK				
a. Noble Gas Monitor (5)	D	M	R(1)	Q(2)
b. Iodine Cartridge	W	NA	NA	NA
c. Particulate Filter	W	NA	NA	NA
d. Sampler Flow Abnormal	D	NA	R	Q
e. Stack Flow meter	D	NA	R	Q
2. REACTOR/TURBINE BLDG VENT				
a. Noble Gas Monitor (6)	D	M	R(1)	Q(2)
b. Iodine Sampler	W	NA	NA	NA
c. Particulate Sampler	W	NA	NA	NA
d. Stack Flow meter	D	NA	R	Q
3. TURBINE BLDG EXHAUST				
a. Noble Gas Monitor (6)	D	M	R(1)	Q(2)
b. Iodine Sampler	W	NA	NA	NA
c. Particulate Sampler	W	NA	NA	NA
d. Stack Flow meter	D	NA	R	Q
4. RADWASTE BLDG VENT				
a. Noble Gas Monitor (6)	D	M	R(1)	Q(2)
b. Iodine Sampler	W	NA	NA	NA
c. Particulate Sampler	W	NA	NA	NA
d. Stack Flow meter	D	NA	R	Q
5. OFF GAS HYDROGEN ANALYZER (H ₂ A, H ₂ B)	D	NA	R(3)	Q
6. OFF GAS POST TREATMENT (5)				
a. Noble Gas Activity Monitor	D	M	R(1)	Q(4)
b. Sample Flow Abnormal	D	NA	R	Q(2)

BFH - Unit 3



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UNIT 1

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UNIT 2

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UNIT 3

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