















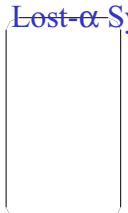
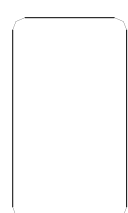

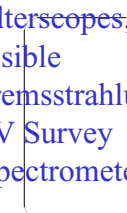
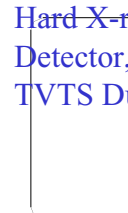
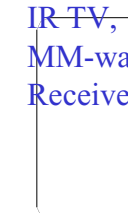
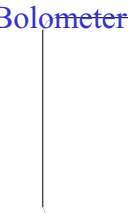
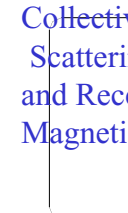



















FIRE DIAGNOSTIC PORT OCCUPANCY

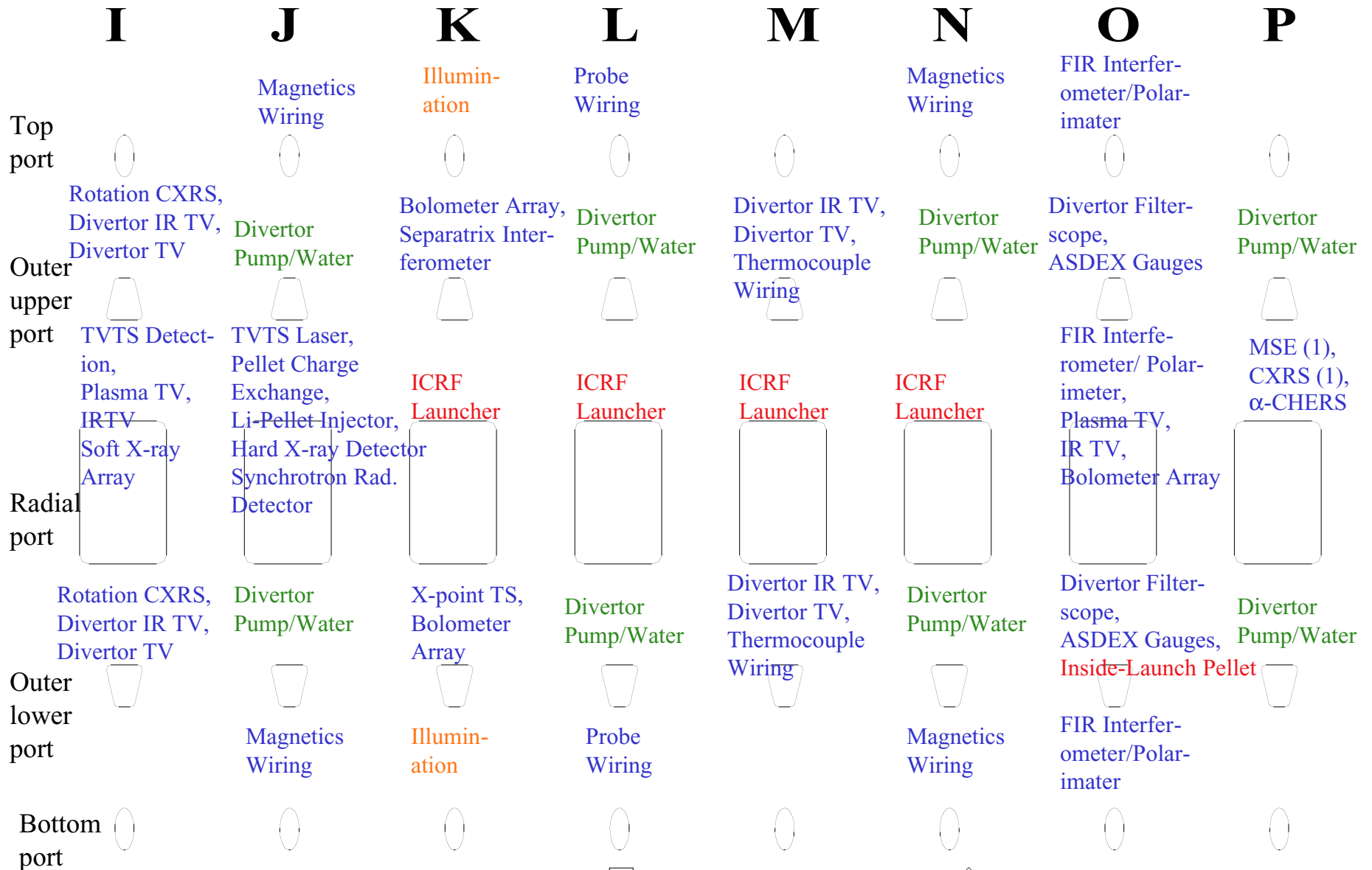
	A	B	C	D	E	F	G	H
Top port								
		Magnetics Wiring	Illumination		Probe Wiring	Magnetics Wiring	Illumination	
Outer upper port								
	Divertor IR TV, IR TV, Penning Gauge	Divertor Pump/Water	Multichord Visible Spectrometer, Bolometer Array	Divertor Pump/Water	Divertor IR TV, IR TV, Thermocouple Wiring	Divertor Pump/Water	ASDEX Gauges, Divertor UV Spectrometer	Divertor Pump/Water
Radial port								
	MSE (2), CXRS (2), BES, Lost- α System	Diagnostic Neutral Beam	Pump Duct, Pellet Injector, Ion-Gauges, RGA	Visible Survey Spectrometer, Visible Filterscopes, Visible Bremsstrahlung, UV Survey Spectrometer	X-ray Crystal Spectrometer, X-ray PHA, Hard X-ray Detector, TVTS Dump	TVTS Detection, Plasma TV, IR-TV, MM-wave Receiver	Neutron Camera, Neutron Fluctuation Detectors, Bolometer Array	ECE Systems, Reflectometers, MM-wave Collective Scattering Source and Receiver, Magnetics Wiring
Outer lower port								
	Divertor IR TV, IR TV, Penning Gauge	Divertor Pump/Water	Multichord Visible Spectrometer, Bolometer Array	Divertor Pump/Water	Divertor IR TV, IR TV, Thermocouple Wiring	Divertor Pump/Water	ASDEX Gauges, Divertor UV Spectrometer	Divertor Pump/Water
Bottom port								
		Magnetics Wiring	Illumination		Probe Wiring	Magnetics Wiring	Illumination	

12/11/01


Epithermal Neutrons

Draft FIRE Diagnostics Distributions

FIRE DIAGNOSTIC PORT OCCUPANCY

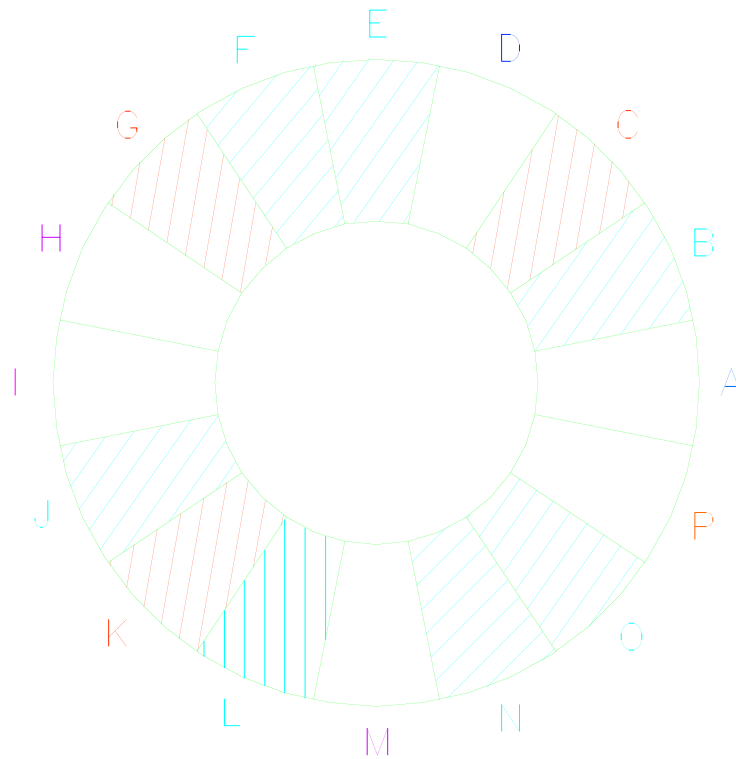


12/11/01

Epithermal Neutrons
 Draft FIRE Diagnostics Distributions

Knock-on Bubble Chamber

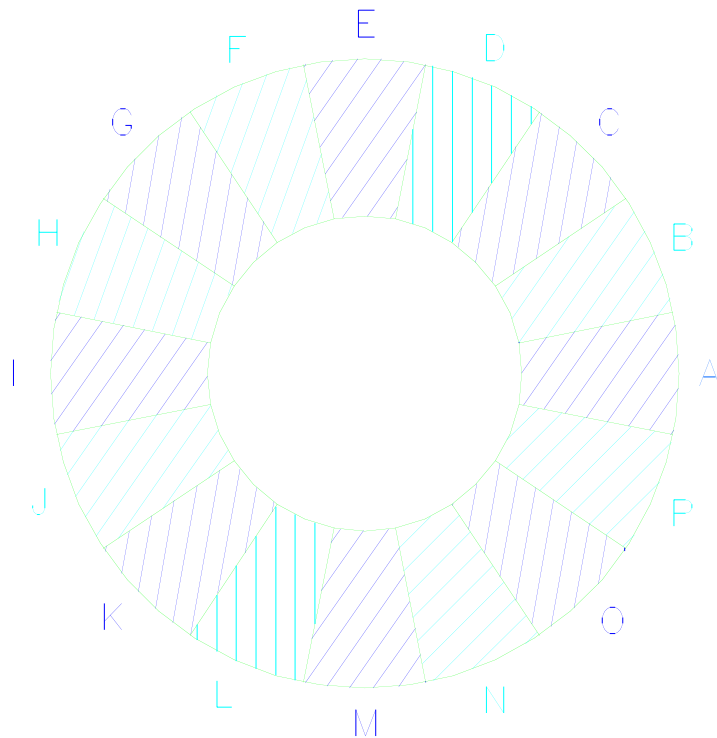
FIRE Diagnostics: Top Port Assignments



- A:
- B: Magnetics Wiring
- C: Illumination
- D:
- E: Probe Wiring
- F: Magnetics Wiring
- G: Illumination
- H:
- I:
- J: Magnetics Wiring
- K: Illumination
- L: Probe Wiring
- M:
- N: Magnetics Wiring
- O: FIR Interferometer/Polarimeter
- P:

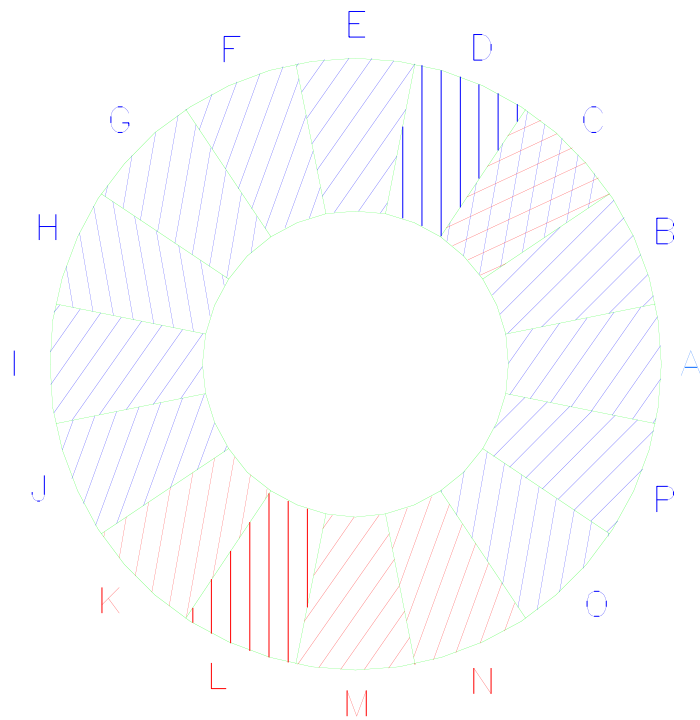
FIRE Diagnostics:

Outer Upper Port Assignments



- A: Divertor IR TV,
IR TV,
Penning Gauge
- B: Divertor Pump/Water
- C: Multichord Visible Spectrometer,
Bolometer Array
- D: Divertor Pump/Water
- E: Divertor IR TV,
IR TV,
Thermocouple Wiring
- F: Divertor Pump/Water
- G: ASDEX Gauges,
Divertor UV Spectrometer
- H: Divertor Pump/Water
- I: Rotation CXRS,
Divertor IR TV,
Divertor TV
- J: Divertor Pump/Water
- K: Bolometer Array,
Separatrix Interferometer
- L: Divertor Pump/Water
- M: Divertor IR TV,
Divertor TV,
Thermocouple Wiring
- N: Divertor Pump/Water
- O: Divertor Filterscope,
ASDEX Gauges
- P: Divertor Pump/Water

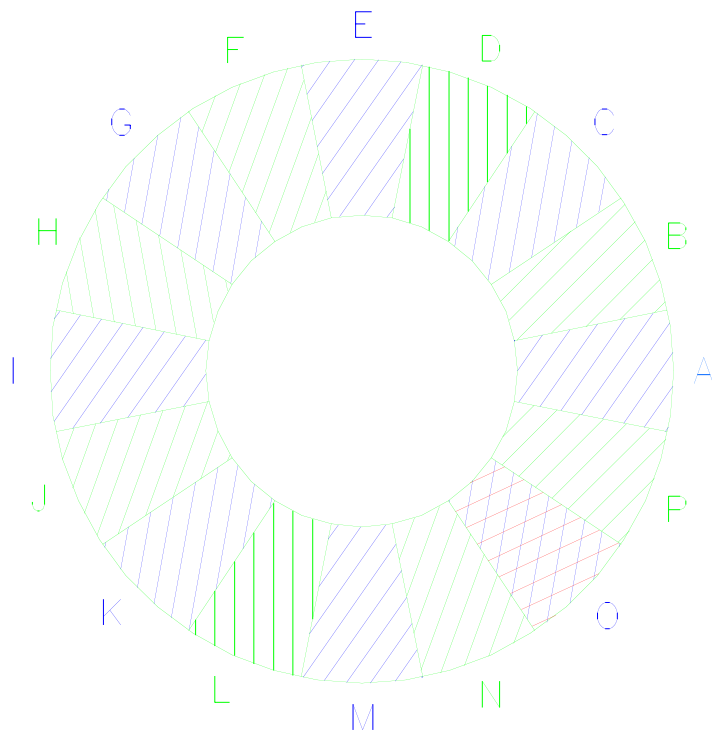
FIRE Diagnostics: Radial Port Assignments



Blue: Diagnostics Components
 Orange: Diagnostics-provided Services
 Red: Auxiliary Systems
 Green: Services

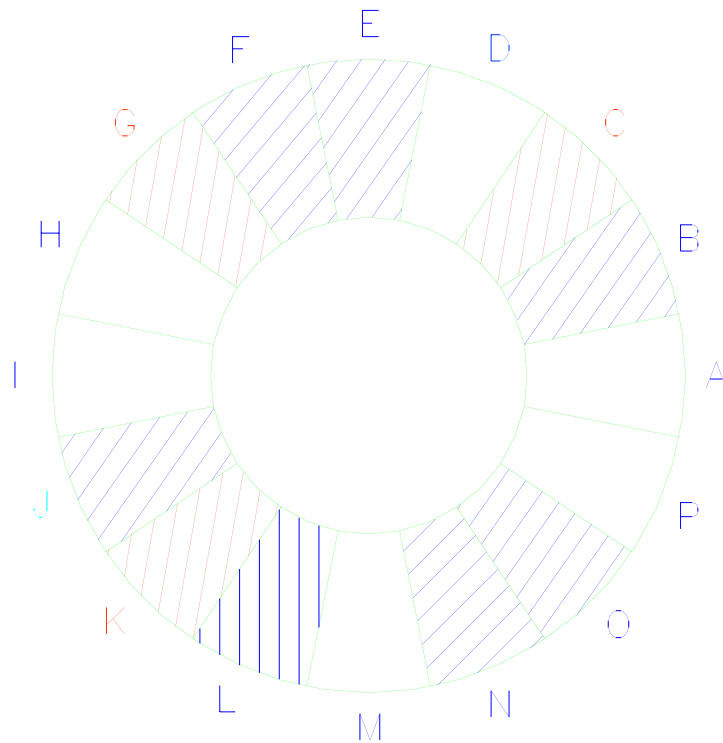
- A: MSE (2), CXRS (2), Beam Emission Spectroscopy, Lost- α System
- B: Diagnostic Neutral Beam
- C: Pump Duct, Pellet Injector, Ion Gauges, RGA
- D: Visible Survey Spectrometer, Visible Filterscopes, Visible Bremsstrahlung, UV Survey Spectrometer
- E: X-ray Crystal Spectrometer, X-ray PHA, Hard X-ray Detector TVTS Dump
- F: TVTS Detection Plasma TV, IR TV, MM-wave Receiver
- G: Neutron Camera, Neutron Fluctuation Detectors Bolometer Array
- H: ECE Systems, Reflectometers, MM-wave Collective Scattering Source and Receiver, Magnetics Wiring
- I: TVTS Detection, Plasma TV, IRTV Soft X-ray Array
- J: TVTS Laser, Pellet Charge Exchange, Li-Pellet Injector, Hard X-ray Detector Synchrotron Rad. Detector
- K: ICRF Launcher
- L: ICRF Launcher
- M: ICRF Launcher
- N: ICRF Launcher
- O: FIR Interferometer/ Polarimeter, Plasma TV, IR TV, Bolometer Array
- P: MSE (1), CXRS (1), α -CHERS

FIRE Diagnostics: Outer Lower Port Assignments



- A: Divertor IR TV,
IR TV,
Penning Gauge
- B: Divertor Pump/Water
- C: Multichord Visible Spectrometer,
Bolometer Array
- D: Divertor Pump/Water
- E: Divertor IR TV,
IR TV,
Thermocouple Wiring
- F: Divertor Pump/Water
- G: ASDEX Gauges,
Divertor UV Spectrometer
- H: Divertor Pump/Water
- I: Rotation CXRS,
Divertor IR TV,
Divertor TV
- J: Divertor Pump/Water
- K: X-point Thomson Scattering,
Bolometer Array
- L: Divertor Pump/Water
- M: Divertor IR TV,
Divertor TV,
Thermocouple Wiring
- N: Divertor Pump/Water
- O: Divertor Filterscope,
ASDEX Gauges,
Inside-Launch Pellet
- P: Divertor Pump/Water

FIRE Diagnostics: Bottom Port Assignments



- A:
- B: Magnetics Wiring
- C: Illumination
- D:
- E: Probe Wiring
- F: Magnetics Wiring
- G: Illumination
- H:
- I:
- J: Magnetics Wiring
- K: Illumination
- L: Probe Wiring
- M:
- N: Magnetics Wiring
- O: FIR Interferometer/Polarimeter
- P: