

New Folder Name LIGO System Block

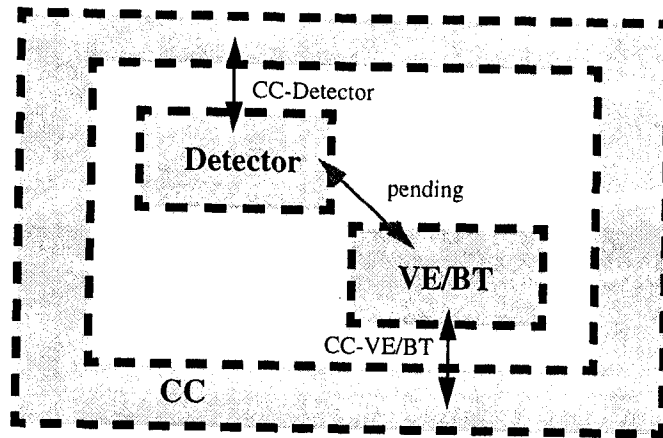
Diagrams

CALIFORNIA INSTITUTE OF TECHNOLOGY
Laser Interferometer Gravitational Wave Observatory (LIGO) Project

To: Distribution
From: Dennis Coyne *DC*
Phone: 395-2034
Refer to: LIGO-T950079-00-E
Date: 28 Sept. 95

Subject: LIGO System Block Diagrams

Attached are preliminary drafts of parts of the overall LIGO Systems Functional Block Diagram. Due to the complexity of the system, I have chosen to express the Systems Block Diagram as a set of three diagrams showing the functional relationships in pair-wise fashion between the Detector, Vacuum Equipment (VE)/Beam Tube (BT) and Civil Construction (CC):



The two attached block diagrams detail the functional relationships between (i) the CC and the Detector and (ii) the CC and the VE/BT; the block diagram for the functional relationship between the Detector and the VE/BT is pending. In these block diagrams, the major systems are enclosed in dashed box. If a function (e.g. electrical power, coolant fluid, etc.) supports the system generally, or globally, then it is represented by an arrow to the dashed box perimeter. If the function supports specific subsystems, then this is indicated by arrows to each subsystem box.

Please review the diagrams for accuracy and completeness and provide comment back to me for revision.

DC:dc

Attachments: (1) Detector - Civil Construction Functional Block Diagram
(2) Vacuum Equip./Beam Tube - Civil Construction Functional Block Diagram

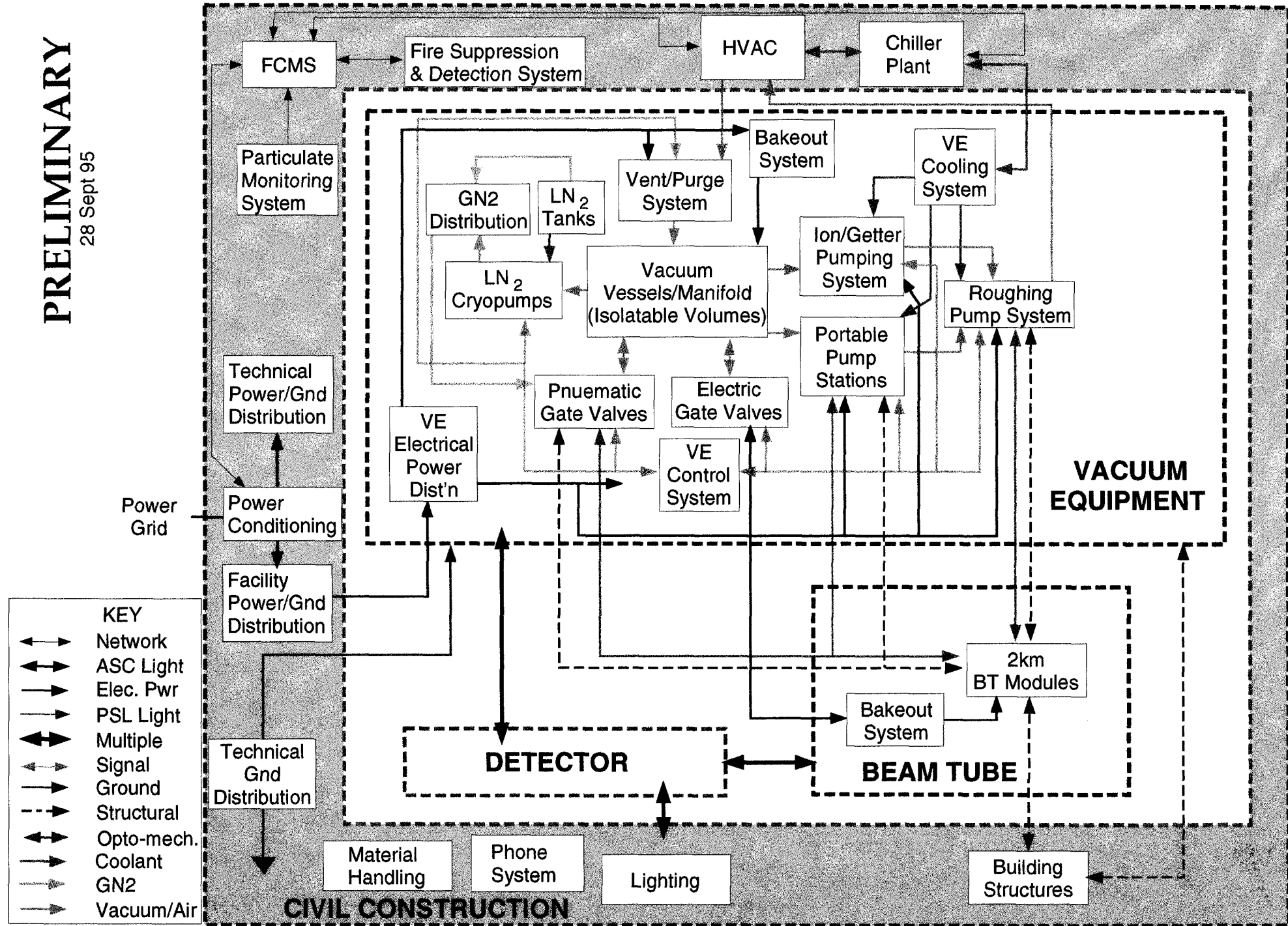
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PRELIMINARY

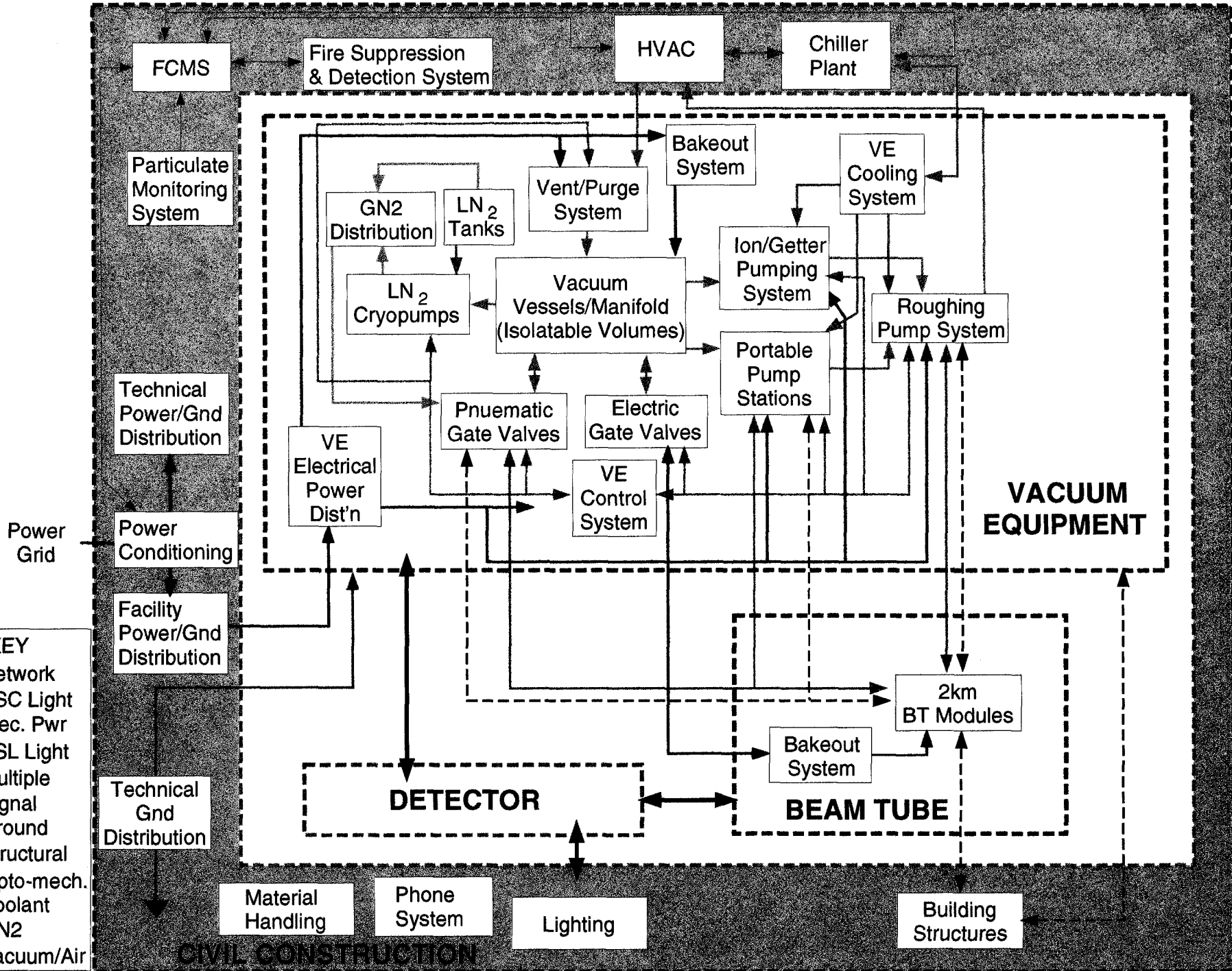
28 Sept 95



VACUUM EQUIP./BEAM TUBE - CIVIL CONSTRUCTION FUNCTIONAL BLOCK DIAGRAM

PRELIMINARY

28 Sept 95



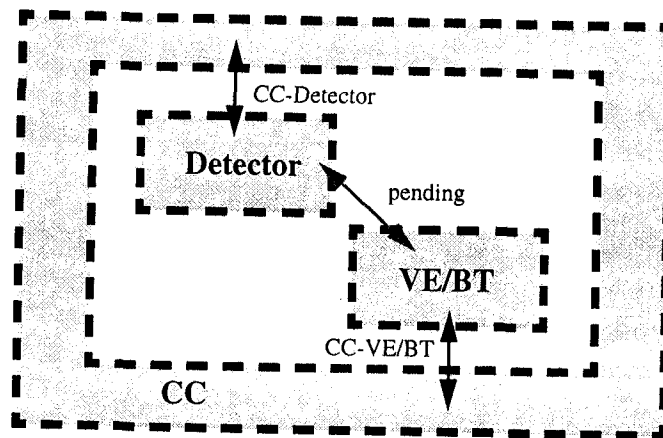
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(2) Vacuum Equip./Beam Tube - Civil Construction Functional Block Diagram

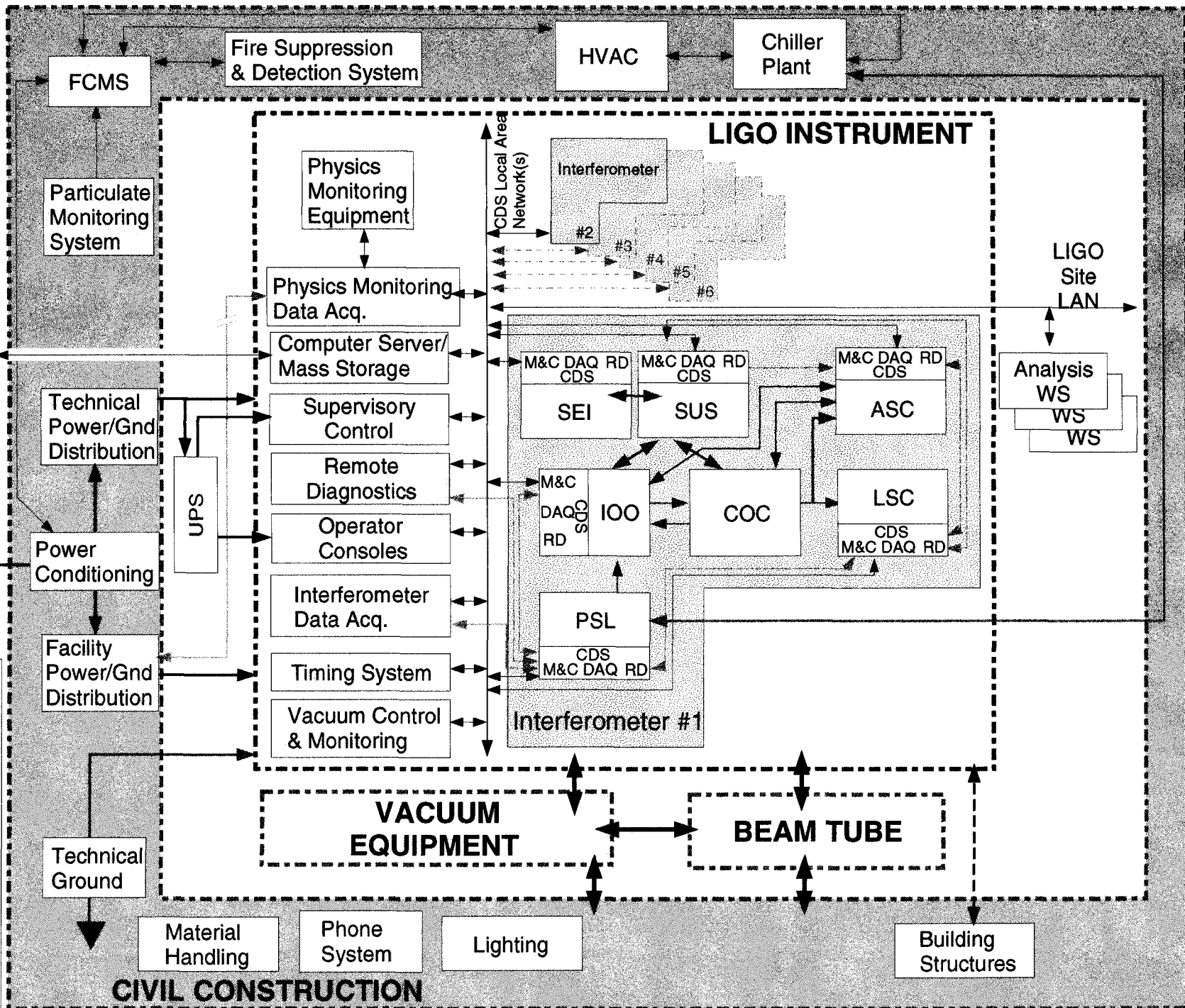
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InterOffice Memorandum

PRELIMINARY

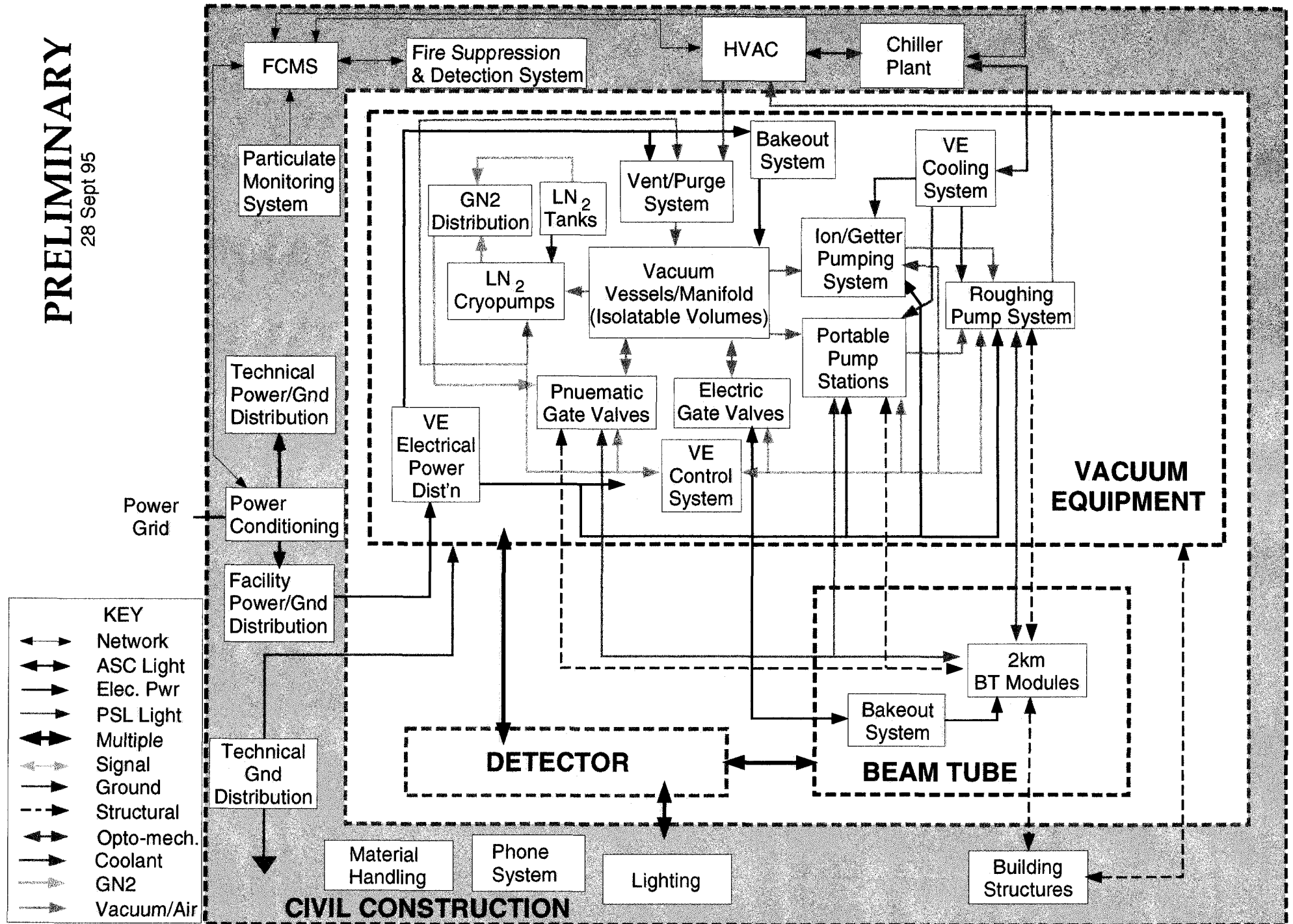
28 Sept 95



DETECTOR - CIVIL CONSTRUCTION FUNCTIONAL BLOCK DIAGRAM

PRELIMINARY

28 Sept 95



VACUUM EQUIP./BEAM TUBE - CIVIL CONSTRUCTION FUNCTIONAL BLOCK DIAGRAM