



Department of Energy
Washington, D.C. 20545

Docket No. 50-537
HQ:S:82:159

DEC 22 1982

Mr. Paul S. Check, Director
CRBR Program Office
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Check:

ADDITIONAL INFORMATION REGARDING EMERGENCY PLANNING, PRELIMINARY SAFETY
ANALYSIS REPORT (PSAR) SECTION 13.3

Enclosed are the responses to requests for additional information regarding emergency planning of the Clinch River Breeder Reactor Plant. Enclosure 1 contains information on the location of plant emergency personnel and plant data transmissions. This information should be considered preliminary, as discussed with Mr. Williams of the Emergency Preparedness Licensing Branch, and will be updated for the Final Safety Analysis Report. Enclosure 2 contains information on the control room locations in Figure 13.3-2, a description of the Technical Support Center (TSC), habitability features of the TSC, and the plant data acquisition system. This information will be incorporated into Amendment 75 to the PSAR scheduled for submittal in January 1983.

Questions regarding this submittal may be directed to W. Hibbitts' (FTS 626-6455) of the Oak Ridge Project Office staff.

Sincerely,

John R. Longenecker
Acting Director, Office of
Breeder Demonstration Projects
Office of Nuclear Energy

2 Enclosures

cc: Service List
Standard Distribution
Licensing Distribution

Dool
1/4/

Finding:

Provide a matrix showing the location of key plant emergency personnel during: (1) a site alert, (2) a site area emergency, (3) a general emergency.

Response:

TVA staffs the plant TSC and OSC from alert to all higher emergency classifications. Therefore, the attached matrix will be the same for all three emergency classifications.

Finding:

NRC requests information on how data transmission is to be established to the CECC, DNPEC, and MSEC.

Response:

TVA will handle data transmission for CRBRP in the same manner it is currently handling data transmission for its operating nuclear power plants.

More specifically, hard copy data transmission will be accomplished by Panafax from CRBRP to the DNPEC, the CECC, and the MSEC. The hardcopy transmission is then followed up and verified by redundant telephone communications. By redundant telephone communications it is implied that there will be a dedicated TVA line, (i.e., Dimension System), and as a backup, the standard Bell system can be used.

CRBRF EMERGENCY PLANT ORGANIZATION

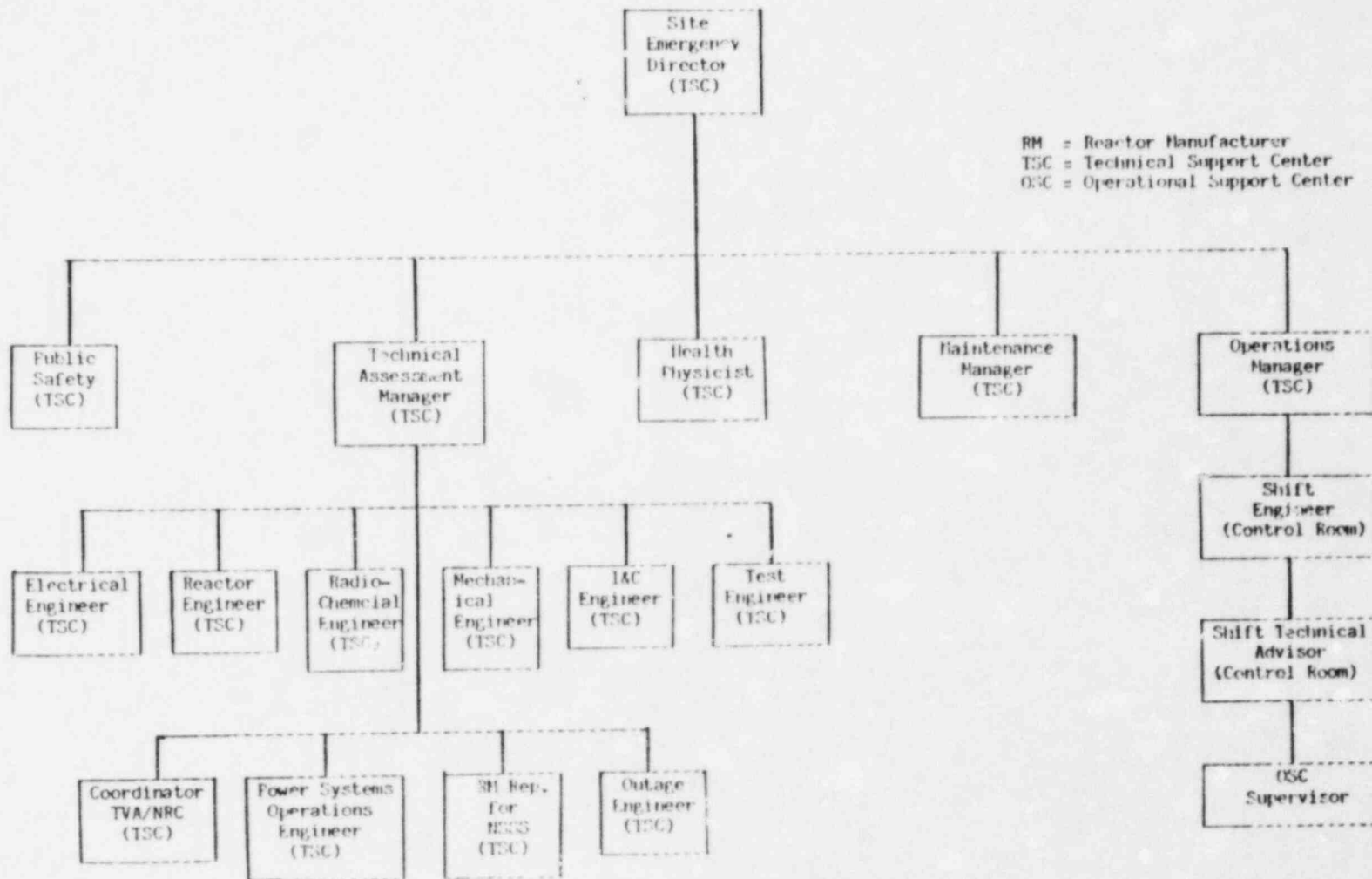


Figure 1

Technical Specifications. The responsibilities of the minimum staff under normal operations will be as outlined in the PSAR. Under emergency conditions the responsibilities of the minimum staff will be unchanged. The site emergency organization will augment the shift operations crew in accordance with NUREG-0654-R1-1980, Table B-1. If members of the site emergency organization are not present when an emergency occurs, the shift engineer on duty will be designated the Site Emergency Director until relieved by the plant manager or his alternate. The duties and responsibilities of the various plant supervisors concerning plant emergencies will be outlined in the CRERP-REP.

An on-site Technical Support Center (TSC) will be provided in accordance with 10 CFR 50 Appendix E-1982 and NUREG-0696-1981, "Functional Criteria for Emergency Response Facilities". The TSC will perform the following functions:

- o Monitor plant operations and provide technical advice and overall plant management from a non-control room location
- o Supply sufficient plant information for analysis of plant status and extent of any plant damage
- o Record sufficient information to allow for a thorough review of plant incidents and to aid in plant recovery
- o Provide communications with off-site personnel and provide for other peripheral functions not directly related to reactor operations
- o Relieve control room congestion

on the B31 level of the control building (see Figures 1.2-82 and 1.2-86)

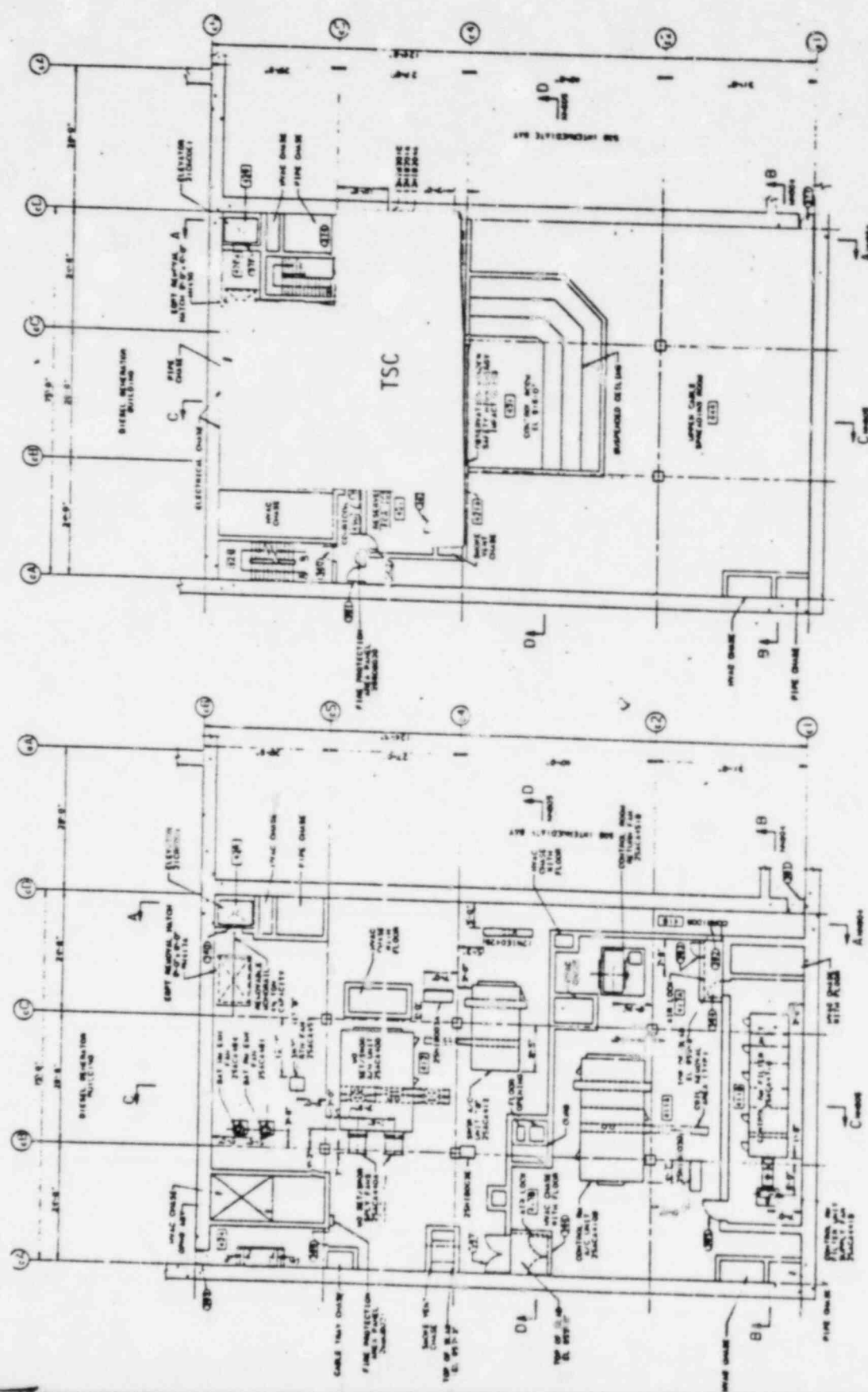
In order to provide these functions, the TSC will be located in close proximity to the control room. Access to the TSC during an emergency will be limited to those persons identified in the REP. The TSC will provide adequate working space for the identified support personnel and required support equipment. The TSC will be capable of being staffed and functional within approximately 30 minutes of an emergency. Radiological protection from airborne radioactivity and plant sources will be provided.

Insert

An on-site Operational Support Center (OSC) will provide a location where support personnel can assemble and where support can be coordinated and will provide communication with the control room and the TSC. The location of the OSC will be ~~an existing area of the plant~~. The OSC will have access to equipment necessary to support the plant emergency response *in the lunch room area of the plant services building (see PSAR figure 13.3 and 1.2-11)*

The on-site emergency organization will be supported by the staffs of four emergency centers: the Central Emergency Control Center (CECC) Staff and the Division of Nuclear Power Emergency Center (DNPEC) Staff in Chattanooga, Tennessee; the Muscle Shoals Emergency Control Center (MSECC) Staff in Muscle Shoals, Alabama; and the Knoxville Emergency Control Center (KECC) Staff in Knoxville, Tennessee. The CECC will function and provide all services as a 'near-site' Emergency Operations Facility. In addition, the offsite emergency organization will be supported by other TVA organizations as may be required.

The TSC is included within the Control Room Habitability Zone described in Section 9.6.1.1.1 and 9.6.1.2.1 of the PSAR. Four CRTs of the Plant Data Handling and Display System described in Section 7.8 of the PSAR will be used to provide sufficient *13.3-3*



REFERENCE DRAWINGS

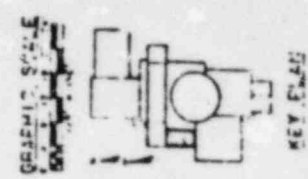
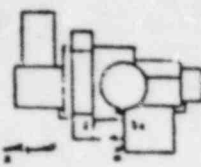


Figure 1.2-71
General Arrangement
Control Building
El. 847'-3\"/>

1.2-82 Amend. 64
Jan. 1992

REFERENCE DRAWINGS
SEE DRAWING 1015-101

GRAPHIC SCALE
1" = 10'-0"

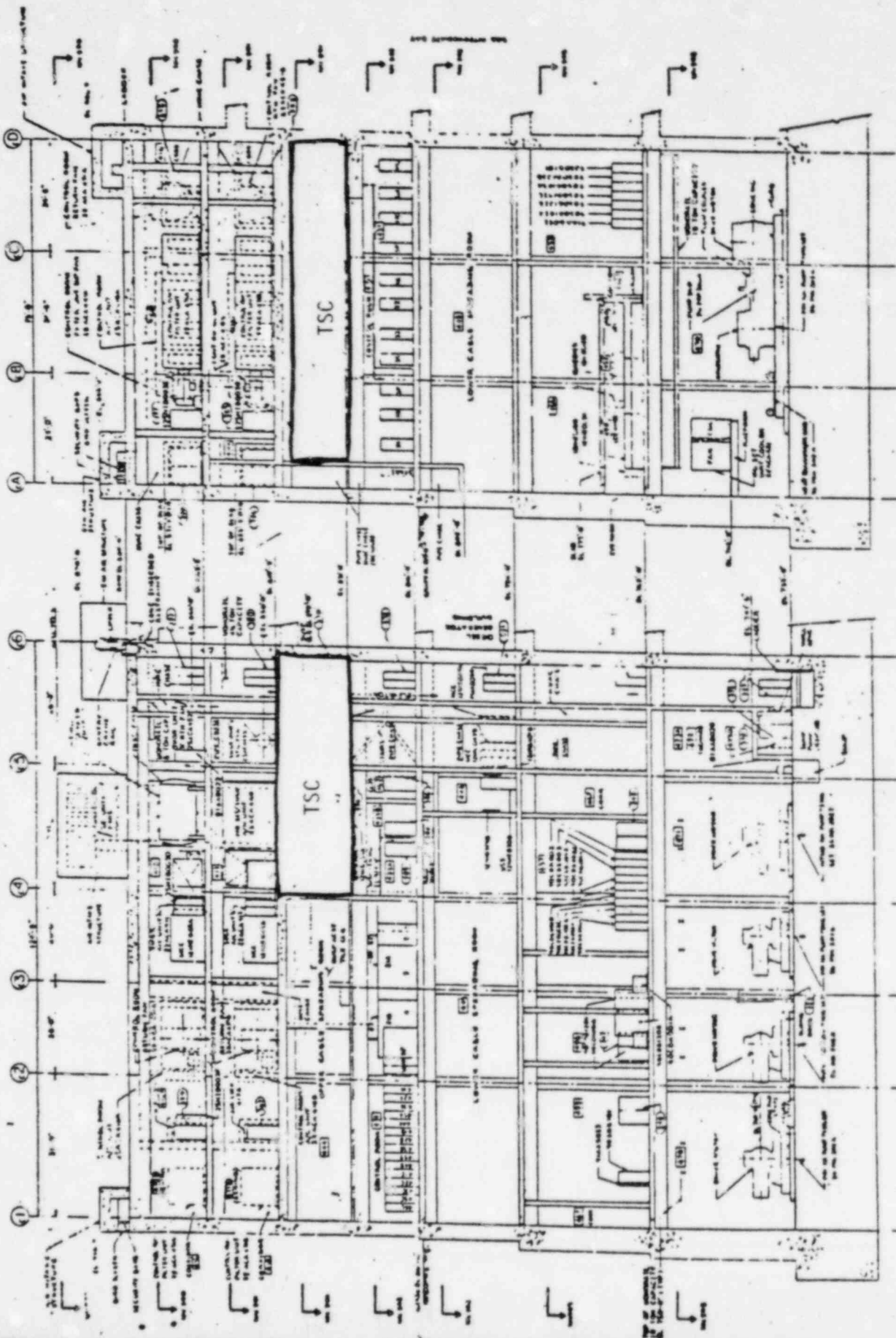


KEY PLAN

Figure 1.2-74
General Arrangement
Control Building
Section A-A and B-B

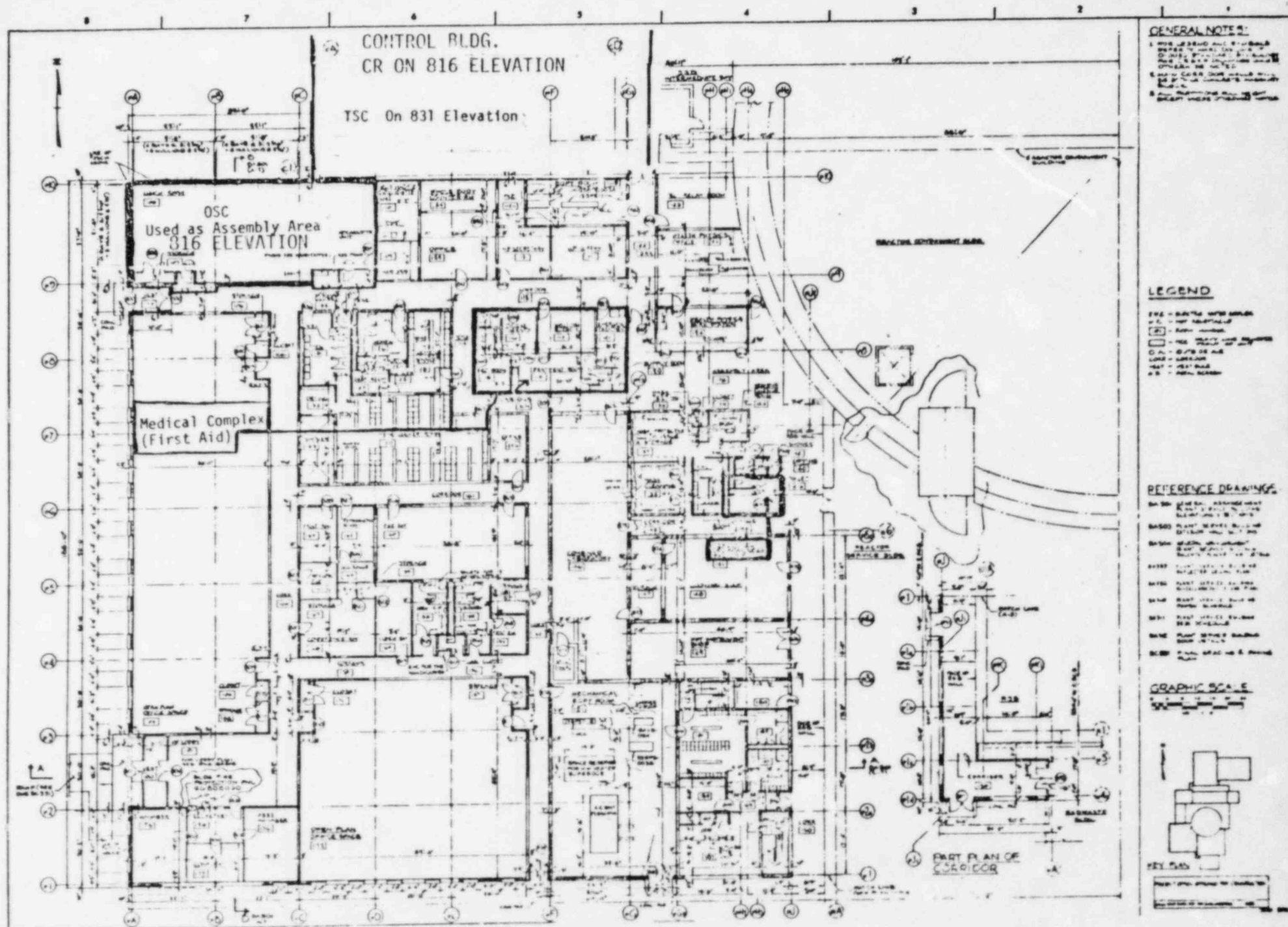
1.2-85

Amend. 64
Jan. 1932



SECTION B-B

SECTION A-A



Locations of Technical Support Center, Operational Support Center, Medical Facilities and Personnel Decontamination Facilities.