Wisconsin Electric POWER COMPANY
231 W. MICHIGAN, P.O. BOX 2046, MILWAUKEE, WI 53201

February 22, 1983

Mr. H. R. Denton, Director
Office of Nuclear Reactor Regulation
U. S. NUCLEAR REGULATORY COMMISSION
Washington, D. C. 20555

Attention: Mr. R. A. Clark, Chief
Operating Reactors Branch 3

Gentlemen:

DOCKET NO. 50-266
STEAM GENERATOR REPAIR ALARA MEETING SUMMARY
POINT BEACH NUCLEAR PLANT, UNIT 1

In response to a request in Mr. R. A. Clark's letter dated December 15, 1982, a meeting was held at Point Beach Nuclear Plant on January 27, 1983 with members of the NRC staff to discuss the ALARA and radiation training program to be conducted in preparation for and during the Unit 1 steam generator replacement. An overview of the radiation protection program anticipated to be implemented at Point Beach during the replacement was presented to the NRC staff members in attendance. A list of meeting attendees, meeting agenda, and the slides used during the presentation are attached for your information.

As discussed during the meeting, the overall objectives of the ALARA effort for the replacement activities are to minimize radiation exposures to individual personnel and to maintain the collective dose to all personnel as low as reasonably achievable. In satisfying these objectives, a coordinated and adequately supervised radiation protection program will be implemented during the repair project. The health physics organizations and interfacing requirements were presented to the NRC staff and are outlined in the attachments.

Westinghouse Electric Corporation is responsible for implementing the radiation protection program and for supplying health physics coverage during the replacement project. It is the responsibility of Wisconsin Electric to ultimately ensure that health physics activities associated with the replacement conform to Point Beach standards and regulatory requirements. The Westinghouse radiation protection program will be monitored by a Wisconsin

A001

Electric Health Physics Coordinator. The Wisconsin Electric Health Physics Group, dedicated to the steam generator replacement, will be comprised of a health physics coordinator and health physics supervisors. This organization will permit Wisconsin Electric to be continually cognizant of health physics activities and concerns during the replacement activities. The Health Physics Coordinator will interface with and assist Westinghouse to ensure the ALARA objectives are achieved. The Health Physics Coordinator is responsible to the Point Beach Health Physicist. The Health Physicist provides policy direction to the Health Physics Coordinator.

Westinghouse anticipates adopting the health physics procedures contained in the Point Beach Health Physics Administrative Control Policies and Procedures Manual. Deviations from these procedures or health physics procedures developed by Westinghouse will be subject to review and approval by Special Projects personnel and the Point Beach Manager's Supervisory Staff, when applicable. The procedure review process is outlined in an attached flow chart.

Westinghouse is in the process of finalizing the radiation protection program to be implemented during the replacement. The program is being developed to meet the guidelines outlined in Regulatory Guides 8.8 and 8.15 and in NUREG-0041. Representatives from Westinghouse and Morrison-Knudsen summarized the methodologies and policies to be used to achieve the ALARA objectives outlined in the Repair Report. The presentation included a discussion of the training, personnel monitoring, audit, and radioactive material control programs.

The design of the containment access building was also discussed. The radiation protection program and facility modification designs are subject to review and approval by Wisconsin Electric.

Mr. T. G. Colburn suggested that the Wisconsin Electric Health Physics Coordinator be made a member of the Manager's Supervisory Staff. In response to this suggestion, the Health Physics Coordinator will in the near future begin attending Management Supervisory Staff meetings which relate to steam generator replacement and will serve as an alternate member for the duration of the steam generator replacement.

Mr. M. Lamastra expressed some concern over the "turnkey" nature of the replacement. Specifically, Mr. Lamastra emphasized the importance of the licensee remaining cognizant of and maintaining control of the health physics aspects of the replacement. Wisconsin Electric recognizes its responsibility and commitment to ensure

the replacement project is accomplished within the ALARA objectives. It was explained that the Special Projects Health Physics Group has been created to ensure that health physics activities during the repair are performed in accordance with Point Beach standards, accepted standards of practice, and regulatory requirements. The proposed health physics organization will facilitate licensee control of the project.

The meeting concluded with Messrs. Colburn and Lamastra participating in a plant tour.

Should you require any further information, please contact us.

Very truly yours,

C. W. Fay

Vice President - Nuclear Power

C. W. Fay

Attachments

Copy to NRC Resident Inspector

ALARA MEETING ATTENDANCE
POINT BEACH NUCLEAR PLANT
JANUARY 27, 1983

NRC

T. Colburn
M. Lamastra
R. Hague
R. Lovendale (part time)

Wisconsin Electric

D. Tate
D. Johnson
G. Frieling
R. Bredvad
T. Koehler
J. Reisenbuechler
R. Link (part-time)

Westinghouse

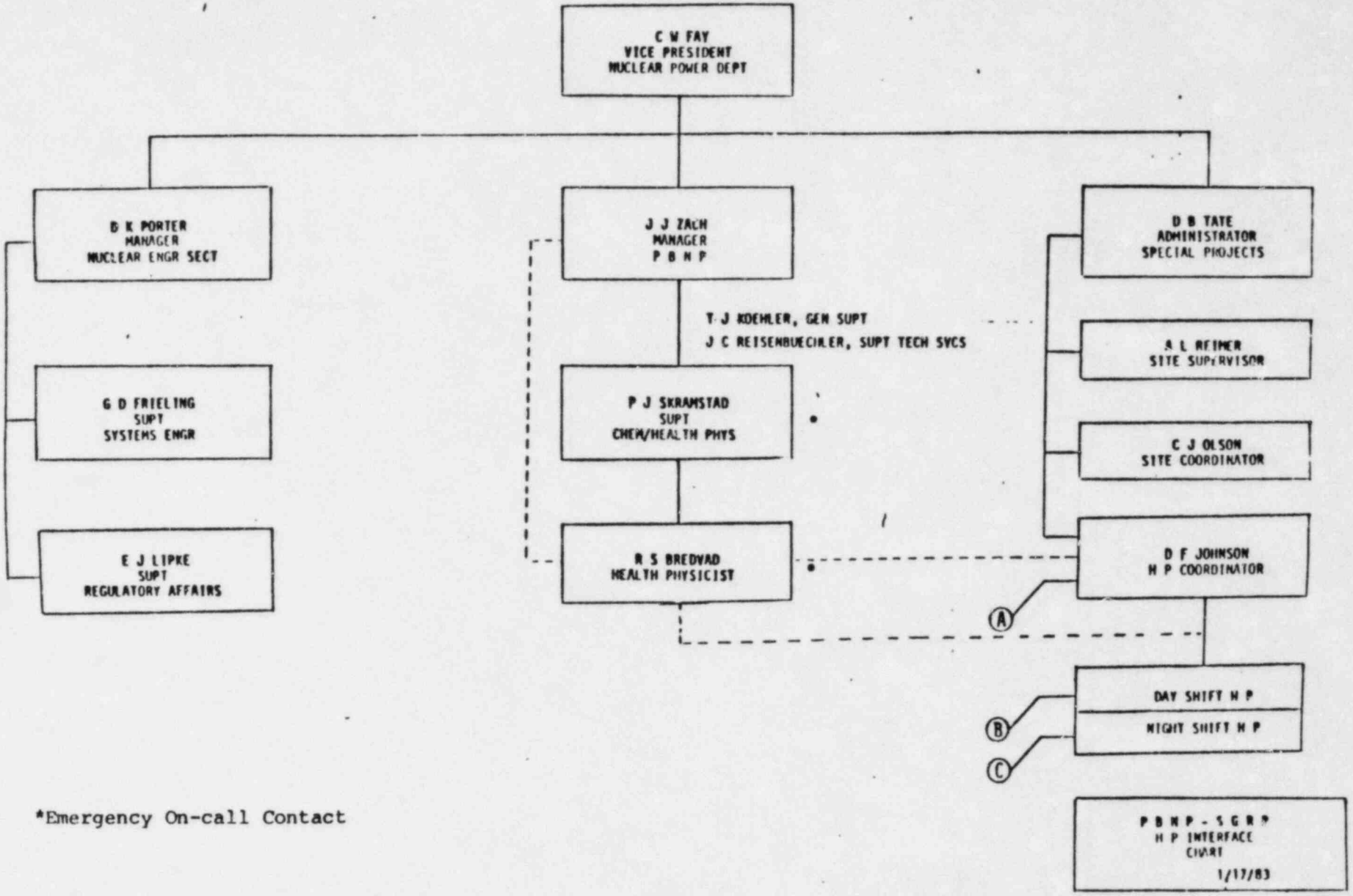
L. Smith
D. Miller
C. Rapp

Morrison-Knudsen

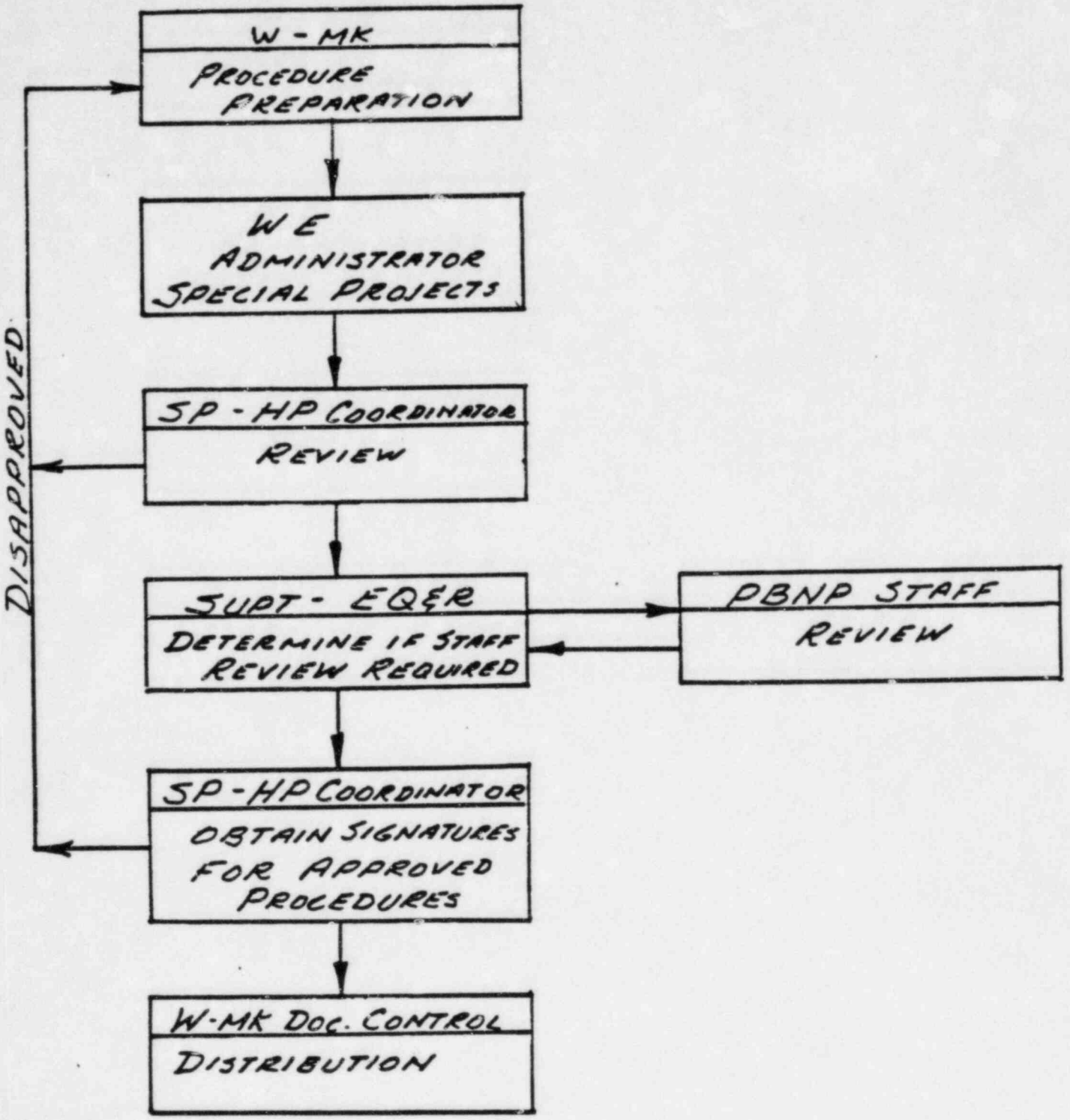
A. Fail
R. Shortridge

AGENDA FOR NRC ALARA REVIEW MEETING FOR
STEAM GENERATOR REPLACEMENT
POINT BEACH NUCLEAR PLANT
JANUARY 27, 1983

1. Introduction
2. WE health physics interface
3. Role of licensee
4. Plant procedure review
5. Westinghouse/Morrison-Knudsen organization
6. ALARA planning
7. Radiation protection plan
8. General training & qualification program
9. Radiation protection training
10. Personnel monitoring & recordkeeping
11. Instrumentation
12. Radioactive material control
13. Surveillance
14. Review & audit
    - Westinghouse/Morrison-Knudsen
    - WE
15. Site tour

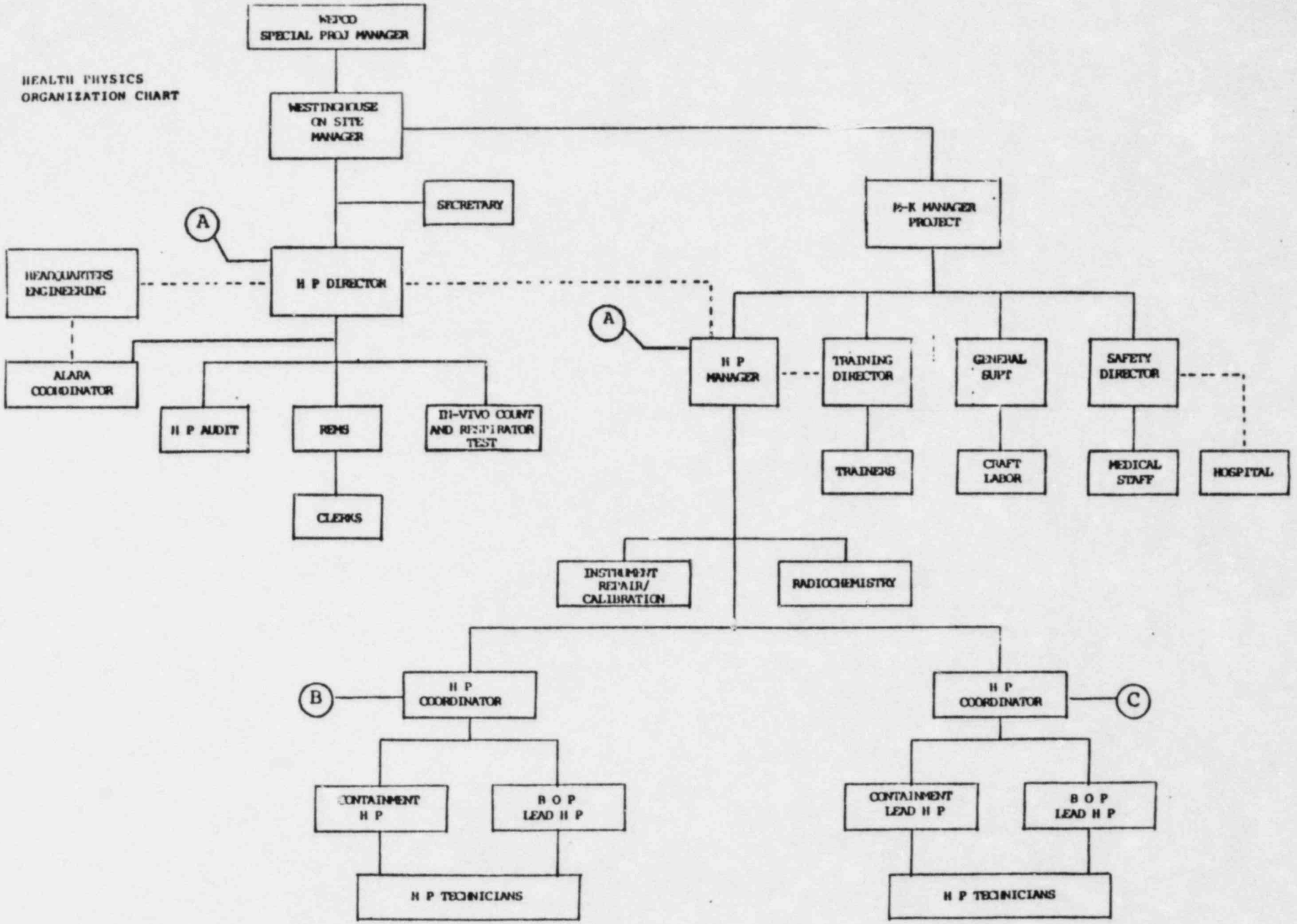


*Emergency On-call Contact



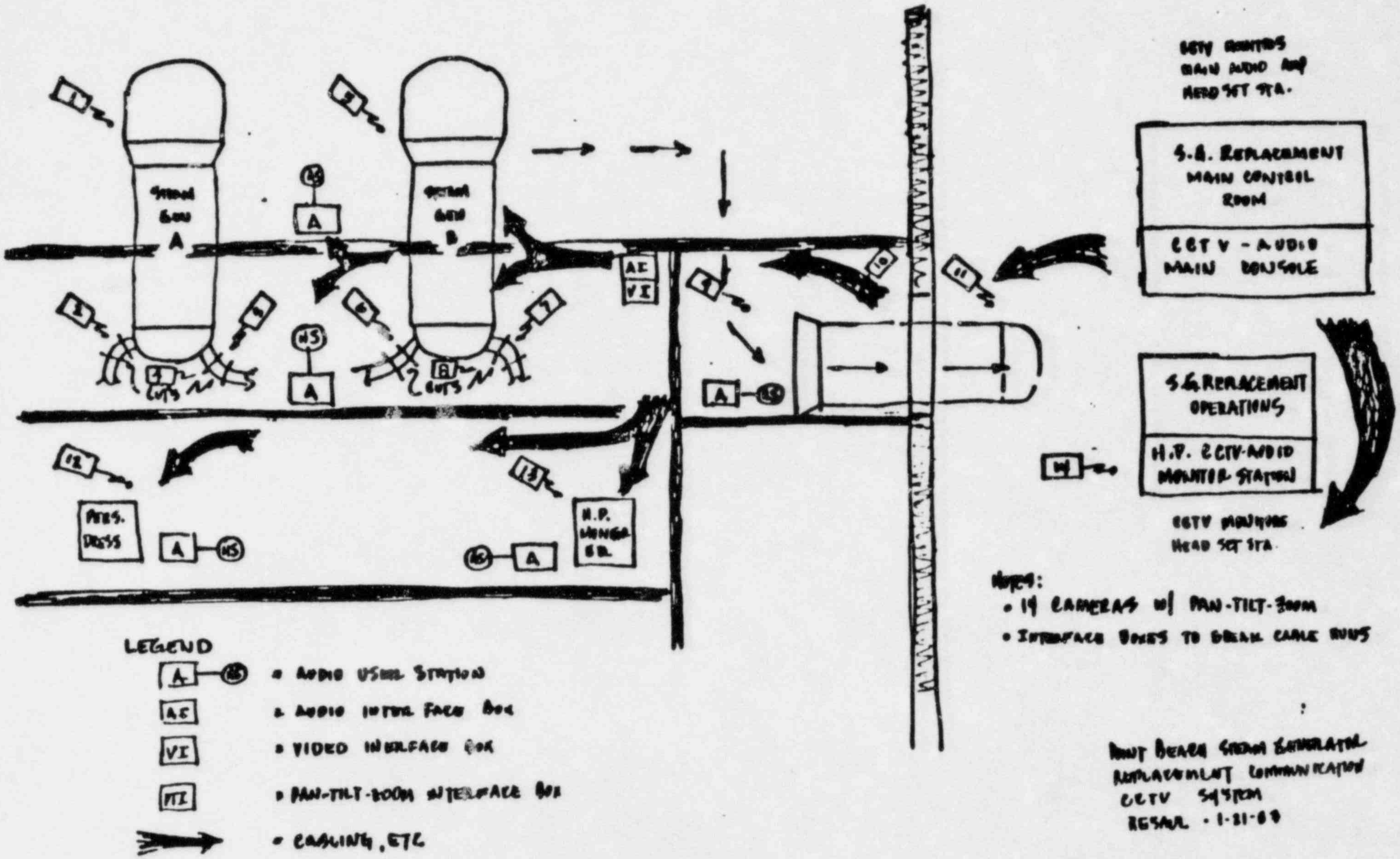
PBNP - SGRP
HP PROCEDURE
FLOW CHART
1-18-83

HEALTH PHYSICS
ORGANIZATION CHART



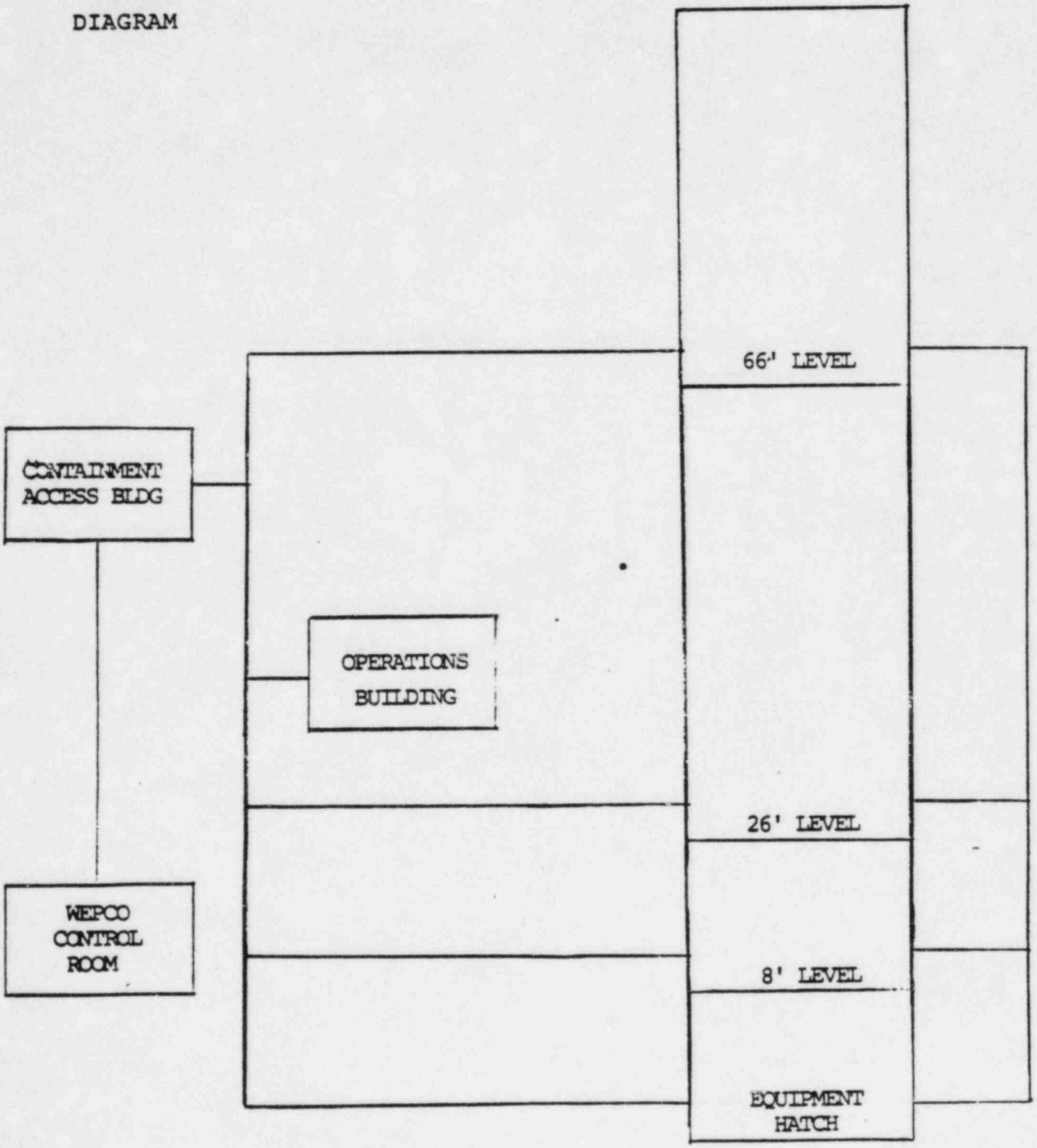
ALARA

- GOALS
- LOW BACKGROUND WAITING AREAS
- FIELD TEST TOOLING
- ESTIMATE TIME AND EXPOSURES PER JOB
- REMOTE MONITORING
- RADIATION WORK PERMITS
- PRE-JOB BRIEFING
- POST-JOB EVALUATION
- INCORPORATION OF RECOMMENDATIONS
- "DRY RUNS" ON MOCKUPS
- USE OF SKILLED PERSONNEL



CCTV MONITORS MAIN AUDIO AMP HEAD SET STA.
S.G. REPLACEMENT MAIN CONTROL ROOM
CCTV - AUDIO MAIN CONSOLE
S.G. REPLACEMENT OPERATIONS
H.P. CCTV-AUDIO MONITOR STATION
CCTV MONITORS HEAD SET STA.
STEAM GEN A
STEAM GEN B
CUTS
AE
VI
PERS. DRESS
H.P. [illegible]
NOTES:
• 14 CAMERAS W/ PAN-TILT-ZOOM
• INTERFACE BOXES TO BREAK CABLE RUNS
LEGEND
= AUDIO USER STATION
= AUDIO INTERFACE BOX
= VIDEO INTERFACE BOX
= PAN-TILT-ZOOM INTERFACE BOX
= CABLING, ETC
POINT BEACH STEAM GENERATOR REPLACEMENT COMMUNICATION CCTV SYSTEM
REGAL • 1-31-83

COMMUNICATIONS
FLOW
DIAGRAM



RADIATION WORK PRACTICES

- RADIATION EXPOSURE MAINTENANCE
- ACCESS CONTROL
- TEMPORARY SHIELDING
- CONTAMINATION CONTROL
- VENTILATION
- TENTING
- DECONTAMINATION
- WASTE PROCESSING
- AREA POSTING
- RESPIRATORY PROTECTION
- PROTECTIVE CLOTHING

RADIATION PROTECTION PLAN

- POLICY AND PROCEDURES STATEMENT
- MANAGEMENT COMMITMENT
- WORKER PARTICIPATION

- GENERAL TRAINING AND QUALIFICATION
  - ORIENTATION
  - RADIOLOGICAL PROTECTION
  - RESPIRATORY PROTECTION
  - EMERGENCY PLANS/ACTIONS
  - COMPETENCY AND UNDERSTANDING
  - RETRAINING/UPGRADING

- SPECIALIZED TRAINING AND QUALIFICATION
  - RADIOLOGICAL PROTECTION
  - DECONTAMINATION
  - LAUNDRY
  - RADIATION EXPOSURE MONITORING
  - COMPETENCY AND UNDERSTANDING

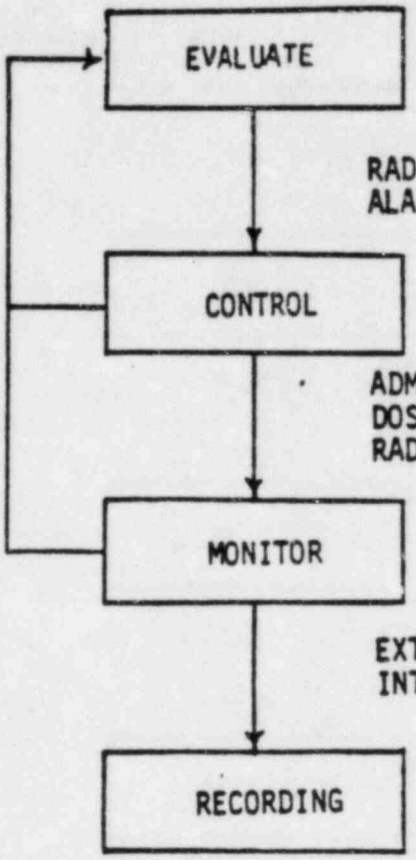
- SPECIALIZED CRAFT TRAINING

  - MOCKUPS
  - PROCEDURE REVIEWS
  - WALK THROUGH
  - "DRY RUNS"
  - COMPETENCY AND UNDERSTANDING

PERSONNEL MONITORING

- SELF READING DOSIMETERS
- THERMOLUMINESCENCE DOSIMETERS
- NASAL SWABS
- IN-VITRO
- IN-VIVO

DOSE CONTROL



RADIATION PROTECTION EVALUATIONS
ALARA COORDINATION

ADMINISTRATIVE REVIEW
DOSE TRACKING
RADIATION WORK PERMITS

EXTERNAL
INTERNAL

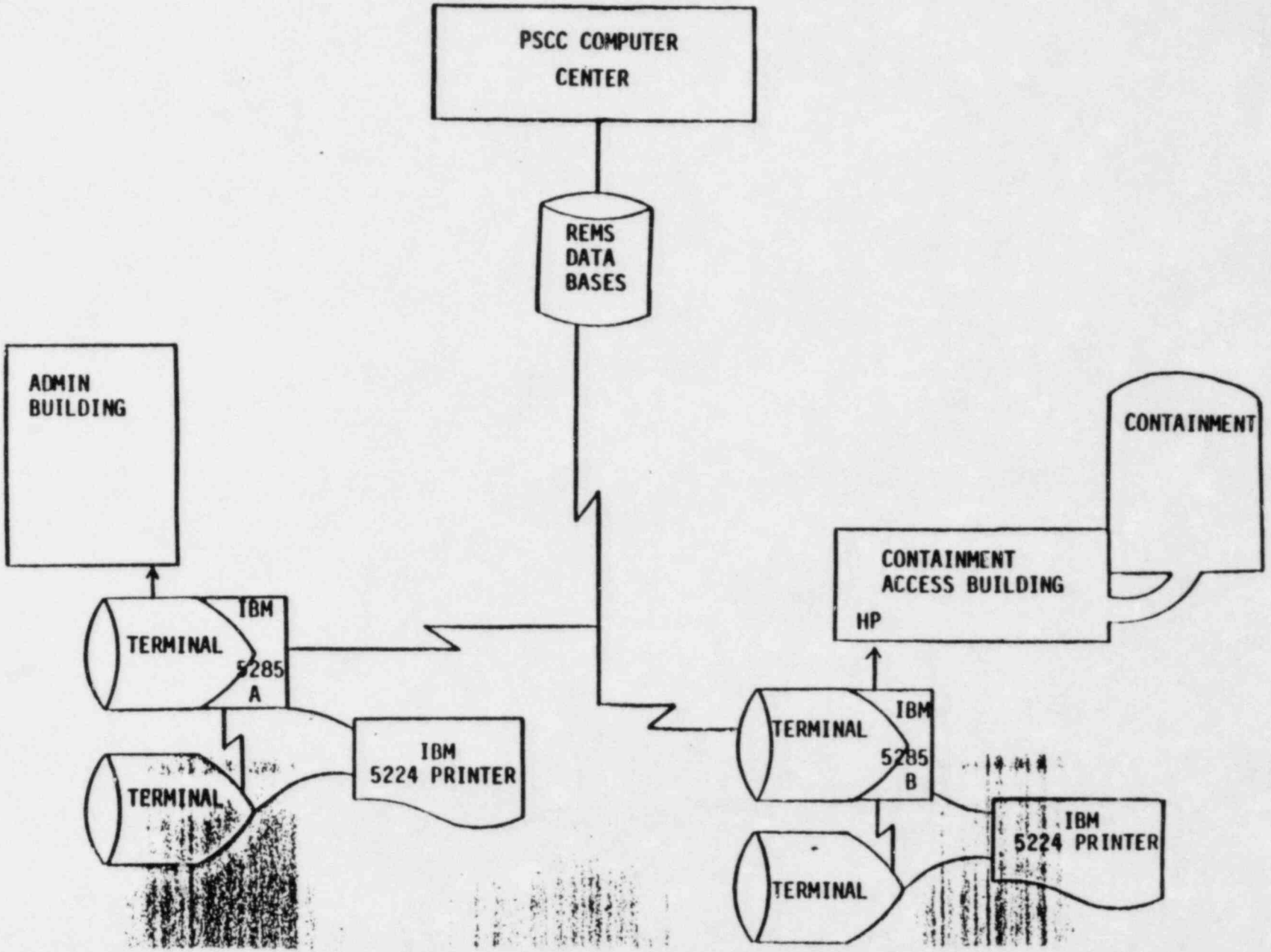
RADIATION EXPOSURE MONITORING SYSTEM

RADIATION EXPOSURE MONITORING SYSTEM

- DIRECT LINE TERMINAL
- BACK-UP SYSTEM
- TRACKING BY OCCUPATIONAL RADIATION EXPOSURE
- TRACKING BY JOB CATEGORY AND JOB TASK
- TRAINING

RADIATION EXPOSURE MONITORING SYSTEM

POSSIBLE HARDWARE CONFIGURATION



INSTRUMENTATION

- PURPOSE
- INVENTORY
- CALIBRATION
- REPAIR

RADIOACTIVE MATERIALS CONTROL

	UTILITY	SUBCONTRACTOR *	PROJECT PROCEDURES *
IDENTIFICATION	X	X	X
ACCOUNTABILITY	X		
CONTROL	X	X	X
MOVEMENT	X	X	X
STOPAGE	X	X	X
INVENTORY	X		
RECEIPT	X		
SHIPMENT	X		
RELEASE	X		

* INSIDE CONTAINMENT

SURVEILLANCE

- SITUATIONS WHERE SURVEYS ARE REQUIRED
- NATURE OF SURVEYS
- EXTENT OF SURVEYS
- FREQUENCY OF SURVEYS
- TYPE OF SURVEYS
- EQUIPMENT USED IN SURVEYS
- HOW SURVEYS VERIFY THE RADIOLOGICAL STATUS OF OPERATIONS AND FACILITY
- USE OF SURVEY DATA
- WORK PRACTICES

REVIEW AND AUDIT

- RADIATION PROTECTION SUPERVISORY REVIEWS
- QUALITY ASSURANCE AUDITS
- CORPORATE AND CONTRACT AUDITS
- RADIATION PROTECTION DEFICIENCY IDENTIFICATION
- CORRECTIVE ACTION