

Personnel Access Data System Operational Overview

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Agenda

- Overview--Jim Davis
- In-processing guidance--Rich Enkeboll
- PADS screens and fields--Bob Kelm
- System Operation--Bob Kelm
- Examples--All
 - On-line using PADS training data base



History

- March 94--Industry initiative vote
- January 95--Audit program starts
 - NEI-94-02 guidance
 - Team audits of approved contractors
- January 96--Electronic system starts
 - Subsumes the "INDEX" system
 - Two years to provide all licensees have on line capability



Commitment

- "I agree to **standardize** the approach for in-processing of nuclear plant workers through the establishment of a computer-based national personnel data system, a central records repository for access authorization records for transient workers, **standardized** plant access training programs and **shared** contractor/vendor access authorization audit functions and results."
- Participation agreement signed by all power reactor licensees
 - Does not include shutdown plants with unique requirements, such as Main Yankee



Governing Principles

- The industry's standards for assuring safe and reliable electricity from commercial nuclear power will not be compromised;
- Any actions taken will use existing organizations, programs, processes and material to the maximum extent possible;
- Collective industry knowledge and experience will be used to ensure best business and operating practices;
- The transition from current individual licensee processes and practices to the industry-wide process will be accomplished in the simplest, most cost-effective and equitable manner;

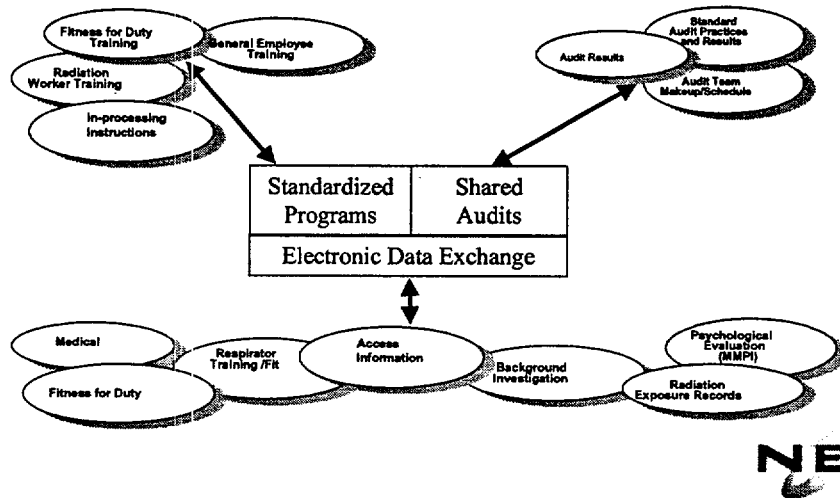


Governing Principles (Cont.)

- ➔ ■ Members will be provided proposed standardized products for review and comment and an industry-wide standard approach will be developed;
- ➔ ■ The system will provide information in a timely, accurate, complete, and secure manner that can be easily and quickly revised, if needed;
 - The approach will minimize the need to generate additional paper, with the ultimate industry goal of a "paperless process"; and
- ➔ ■ The system will provide security for personal information in the data base with due regard for all legal requirements.



PADS Scope



Standard Process

- A major, two year, challenge
 - Up to 7 Task Forces involved
 - Many workshops and meetings
- Regulatory interface
 - Detailed review of all existing guidance
 - Frequent meetings and discussion
 - Formal correspondence
 - ◆ NEI 95-01 submitted for comment two times
 - ◆ Series of letters on open issues

NEI

Industry Guidance

- NEI 94-02, Standard Audit Process for Licensee-Approved Contractor/Vendor AA/FFD Programs
- NEI 95-01, NPP Personnel Access Authorization Standards and Procedures
- NEI 95-03, PADS Health Physics Standards and Procedures
- NEI 95-04, Guideline for General Plant Access Training



ORGANIZATION OF INDUSTRY GUIDANCE DOCUMENTS

Industry Standard Practices Including Meeting Regulatory Intent

- NEI 95-01, NPP Personnel Access Authorization Standards and Procedures
- NEI 94-02, Standard Audit Process for Licensee-Approved Contractor/Vendor AA/FFD Programs
- NEI 95-03, PADS Health Physics Standards and Procedures
- NEI 95-04, Guideline for General Plant Access Training

PADS NEI 95-05 Operating Manual

- Part I – Guidelines
 - Responsibilities and policies
 - Data element definitions
- Part II – Operating Procedures
 - Basic data entry
 - Access screens
 - HP screens
 - Training screens
- Part III – System Administration
 - Data validation
 - Internal audits
 - Training
 - System management
 - Database administration

NEI 95-06, PADS Electronic System Technical Documentation

- Part 1: System manager's manual
- Part 2: Enhanced batch interface user's manual

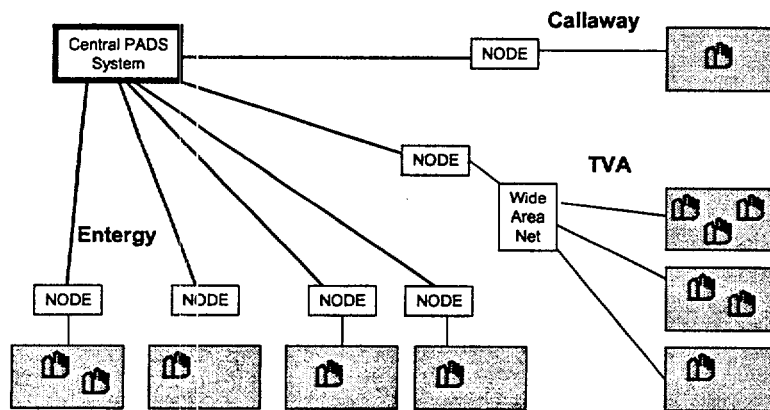


The System

- Equipment
 - Central server--the master
 - User “node”, or local server
 - Frame relay communications system
- “Relational database with partial replication”
 - Each node maintains an exact copy of those records being used
 - Provides reliability and timelines

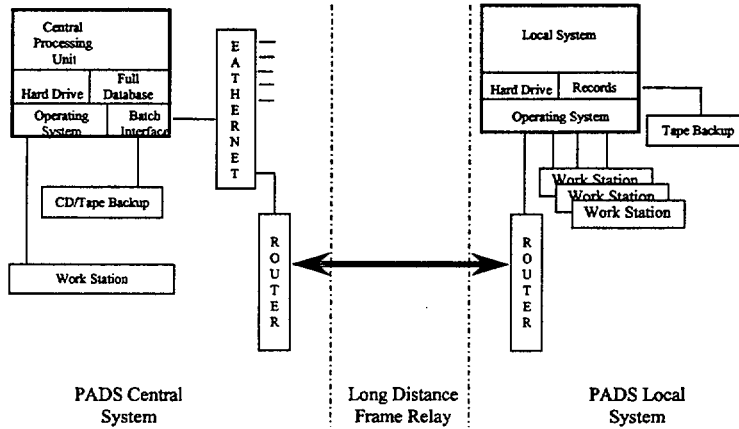
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Types of Service

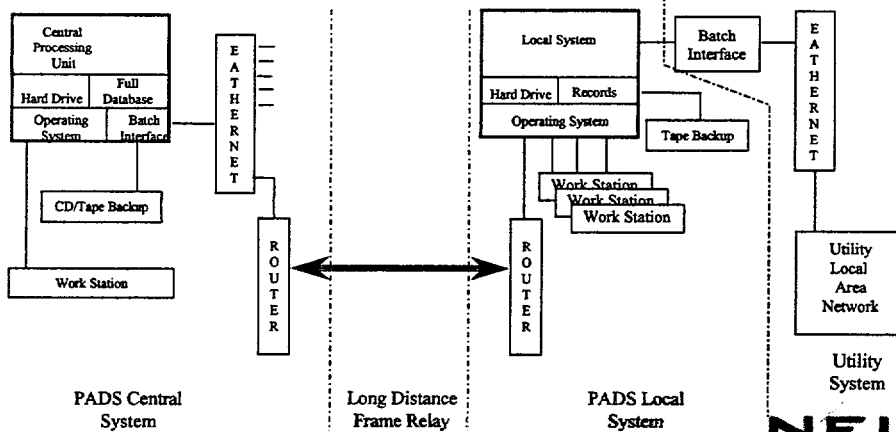


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PADS basic system



PADS with LAN access



PADS Data

- Data Element
 - Clearly defined in NEI 95-05
 - Not narrative--(one exception in HP)
 - No attachments
- Tables
 - A database function
 - Stores information in logical sets--HP, training, etc.
- Screens
 - User interface only
 - Draws from multiple tables
 - Only update database when "saved"
 - "Tested" before database updated

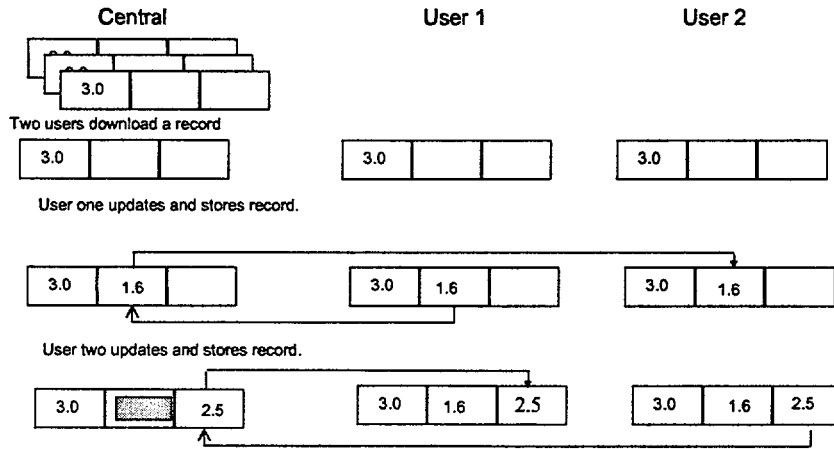


Database

- All records reside on the central server
- Nodes have copies of records being used
 - Improved speed for record updates
 - Continued operation if communications lost
 - Efficient batch processing and searches
- For each "transaction" all copies of a record update



Partial Replication



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Where did data come from?

- Plant Code
 - Generated the record and has the files
 - For example: Harris, Westinghouse, INPO
- Input Code
 - Put the information into PADS
 - In the example: Harris, Harris, Harris
- Screening Company
 - Actually did the work for a BI or HHS lab for a FFD sample
- Holding Company
 - The licensee that made the UAA determination.

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Key time periods

- Less than 30 days
- Within last 60 days
- 31 to 365 days
- between 366 days and 5 years
- Greater than 5 years

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