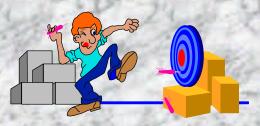


Y2K Contingency Planning CRNA WORKSHOP 2/9/99

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Y2K Contingency Planning What are the Requirements?



- NRC Generic Letter 98-01 (Complete by 7/1/99)
- NEI/NUSMG 97-07 (Program)
- NEI/NUSMG 98-07 (Contingency Planning)
- PA PUC Requirements (Complete by 3/31/98, for mission critical Remediations not completed)

Y2K Contingency Planning What is External Risk?



Remediation Risk

 Perform risk analysis of remediations in progress and determine the prudency of developing Contingency Plans

Internal Risk

Evaluate the Y2K Ready/Compliant digital systems and software to determine which have severe consequences if a Y2K failure event were to occur

External risk

 Determine the risk and impact of external goods, services, activities and processes, not under the utility's direct control, which may cause or increase the severity of Y2K induced events. (phone services, delivery of critical supplies, emergency response etc.)

Y2K Contingency Planning Where Does External Risk Stuff Come From?



External Risk Inputs

- Information gathered during Y2K initial activities
 - LGS and PB Security Plans
 - Fitness For Duty Program
 - Licensing Commitment Database
 - **Environmental Monitoring Plan**
- NRC Required Interfaces (ERDS, Region, Headquarters etc.)
- LGS/PB Technical Specifications
- Contracts for goods and services
- Letters of agreement between PECON and outside organizations
 - Maintenance Rule database
- PECON Emergency Plan

Y2K Contingency Planning What's The Approach?



- Define Bounding Conditions
 - Systems Required for Safe Shutdown (Loss of GRID)
 - Systems and support activities Required for Operational Assurance (Maintain Power Generation)
 - Regulatory Requirements (E-plan, Environmental, Reporting, Staffing, Security Plan, etc.)

Y2K Contingency Planning How Do I do it for Remediation?



STAFF & PROCESS

- Senior Reactor Operator
 - Determine which systems are mission critical
 - Determine which remediations will not be complete by 3/31/99
 - Determine which remediations are at risk of not completing by rollover
 - Prepare Contingency Plans

Y2K Contingency Planning How Do I do it for Internal?



STAFF & PROCESS

- Senior Reactor Operator
 - Risk Rank Plant and IT systems
 - Evaluate digital/date sensitive components for H/M systems
 - Finalize Risk Ranking
 - Determine which systems require Contingency Plans

Y2K Contingency Planning How Do I do it for External?



STAFF & PROCESS

- Emergency & Security Plan Coordinator
 - Scrub Security Plan
 - Scrub Emergancy plan
 - Risk Rank Population
 - Licensing Coordinator
 - Scrub Commitment Database
 - Scrub Technical Scecifications
 - Risk Rank Population
- Goods & Services Coordinator
 - Build List of Critical Suppliers
 - Risk Rank List

Y2K Contingency Planning Risk Evaluation



Risk Determination

- Consequences of event (High, Medium or Low)
 - Likelihood of event (high or Low)

Risk Ranking

- List events in order of risk priority (HH, MH, HL etc.)
 - Decide which require a Contingency Plan



Y2K Contingency Planning Risk Consequence Determination



Determination of Consequence Factor

	CONSEQUENCE		
RISK CATEGORY	<u>HIGH</u>	MEDIUM	<u>LOW</u>
Safety	Threat to Life or Health		No Threat to Life or Health
Regulatory and Other Legal Impact	Significant Regulatory or Legal Impact	Some Regulatory or Legal Impact	No Regulatory or Legal Impact
Environmental Impact	<u>Any</u>		No Impact
Business Impact	Immediate, major impact with no work-around	Major Business impact Within 8 Hours	Business Impact Within 1 Week
Financial Impact	Earnings Loss of \$500K/day or more; or Existing Alternate Remediation Costs More Than Projected Earnings Loss	Earnings Loss \$100K/day to \$500K/day	Earnings Loss Less than \$100K/day
Operational Impact	Failure will Cause Operations to cease in 2 Days or Less	Failure will Cause Operations to cease Between 2 to 7 Days	Failure will Cause Operations to cease in Greater than 7 Days; or Failure Has No Operational Impact
Adverse Public, Employee or Customer mpact	Significant Impact	Some Impact	No Adverse Impact
Critical Business Activity Impact	Activity is Stopped at a Key Process Point	Activity is Slowed or Inconvenienced	No Impact or Stopped at a Low Level Point in the Process

Y2K Contingency Planning Risk Likelihood Determination



Determination of Likelihood Factor

and the second	<u>Likelihood</u>		
<u>Category</u>	<u>High</u>	Low	
Y2K Compliance Status	Not Compliant or Ready	Compliant or Ready	
System Complexity	High: Integrated testing could not be performed; or System has Several External Interfaces which could not be thoroughly tested	Low; or Highly complex system but all interfaces have been successfully tested in the integrated system environment	
Supply Chain	Low Confidence that the provider/supplier will continue to provide the service; or Weaknesses exist in the supply chain; or Complex supply chain that relies on multiple levels of suppliers	High confidence that the provider/supplier will continue to provide the service	

Determination of Overall Risk Factor

Consequence	Likelihood	Overall Risk Factor Priority
high	high	
medium high	ALTERNATION IN	2
high	low	3
medium low	AD= 50	4
low	high	5
low	low	6

Y2K Contingency Planning Deliverables



- Matrices which identify population, evaluation attributes and risk evaluation
- Risk analysis worksheet for each member of the population
- Recommended list of required contingency plans
- Final list of required Contingency Plans
- Review of Activities by Site Owners
- Contingency Plan Strategies and Plans
- Training Packages
- Millennium Response Teams by name