Writing the RMOE (Series Execution Procedures) of the INBS Missiessy.

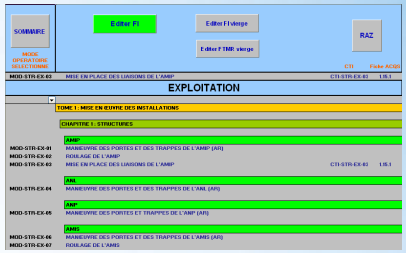
Objective

Update all maintenance procedures and operating INAT (Nuclear Installations A Terre) and create lacking procedures
The challenge: Recover, verify, update, formalize and validate more than 1,500 procedures in 1 ½ year

Approach

•Recovery procedures and existing procedures scattered throughout the site;
Verification of these procedures vis-à-vis the regulations;
Query operators to draw up the procedures do not exist;
Establishment of a common formalism to all procedures with implementation of PV integrated document;
Creating a software and an interface allowing operators to publish the procedures and related documents;
Taking into account the comments and improve procedures after field use.

Difficulty: Retrieve information about transactions decadal



Results

•Creating tools to assist the implementation and monitoring operations
• Building the Collection of procedures for the execution of more than 1500 maintenance procedures and operating scalable

Client benefits

• Saves time on the transactions, continuously improving the quality of operations and limiting human error
Capitalization of knowledge, establishment of a feedback and monitoring operations

Definition of technological waste barrels treatment resulting from the reprocessing of worn fuel

ALTRAN

Objectives

To determine the process of setting in barrel scrap by taking account of various constraints
→ type of parcel
→ compatibility proceeded of decontamination - site activities
→ load estimating of the workshops concerned with the storage of waste for the 8 years to come.
Challenge: to propose solutions taking account of the interests and the constraints of each actor concerned to hold a tight planning (setting in production of the die envisaged at the beginning of 2009)

Our way

To compile many information available on the subject and… dispersed.

To determine the realistic establishments of the die of treatment of barrels

→risk of blocking of storages of waste depth of the site at horizon 6 years

To coordinate the actions of the various workshops

→Measurements campaign, tests, programming of the activity, investment

Difficulty: to recover all information near the services of the customer and to make an action plan; room for limited move

Results

To rationalize the study

→ viable scenarios allowing to return the feasibility study in times

Interlocking of the following phase

→ study of establishment of the process of treatment of barrels on the site

Client Benefits

Assumption of responsibility of part of the coordination of the various services concerned

Performing the detailed specification of the protection system of a nuclear

Objective

Introduce the activity detailed specification of the controller providing security protection and monitoring of a 900MW power plant, and monitor the development activity.
Challenge: Develop tools and methods adapted work, organizing training and monitoring of Chinese engineers, resolve problems using a new technology of robots.

Approach

Preparation and monitoring of the development cycle:
Analysis of input data (about 1,000 folios)
Functional breakdown of the system
Development of technical concepts
Preparation of detailed specification of the system
Difficulties:
Instability and inconsistency of data entry
Adapting to new technology of digital automata
Originality:
Establishing a management tool of anomalies between teams specification, development and testing

Results

•Réalisation de la version 1.0 party system testing platform
Establishment of a processing tool anomalies and associated procedures
Ongoing: Starting from version 2.0 system

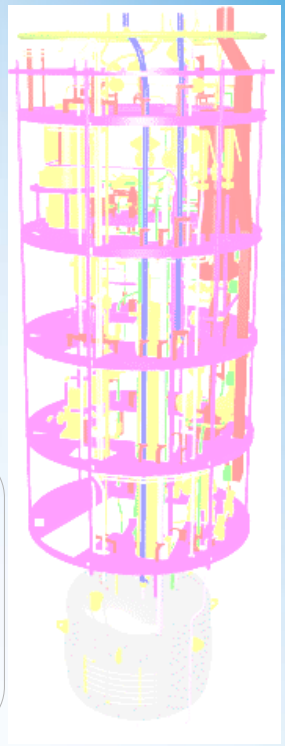
Client benefits

1. Organization of the specification in adjusting the use of tools to take into account the volatility of input data, and to limit the impact of takeovers
Establishment of management of anomalies with a method adaptable to other projects

Dimensioning with the pressure of pipings of a nuclear thermal power station of test

Objectives

Context: The customer has in load the modification of the nuclear test loop, to adapt it to new types of fuel tests.
The challenge: to dimension with the pressure of additional pipings.
→ This project was late



Our way

Using the schedules of conditions technical and computer codes adapted to the standards for nuclear construction
→Recovery of the documents
→Calculations of dimensioning to the pressure of the lines of pipings and the connected equipment

Results

Conformity of the results with the criteria of dimensioning of nuclear equipment. The notes thus validate the choices of design (plans and materials) for the various equipment
→ about 70 validations since the beginning of the project

Client benefits

Client Verbatim : "… *I am satisfied with your short times which catch up with thus, part of the initial delay…"*

To check test results and to answer technical questions on a nuclear workshop

Objectives

To validate the tests realized by the customer so that it can carry out the final receipts of the factory

Challenge: to follow the rise in fast rate of the factory

Our way

Answer to precise and pointed questions (comparative, councils,…)

→ 1 question per week

Difficulty : to find the expert able to answer these questions and requiring an experiment

Results

Validation of 60 test results