

From Paper to Online: Florida Power and Light Case Study

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Background

- Florida Power and Light (FPL) owns five nuclear power sites in four states
- FPL Began using Perception four years ago
- Integrated with the Plateau LMS
- Immediate need was to convert assessments in computer-based training to web-based
- Upgraded to Perception version 4.2 in May 2006
- Completed workflow development in Dec 2006
- Project to roll-out to sites began in June 2007



What is important to our industry

Systematic Approach to Training

- Processes must be documented

Regulatory Confidence

- Exam security

Documentation

- Results must be archived for life of plant (40+ years)



Why we selected Perception

- Assessments can be printed or delivered online.
- Data can be shared across our fleet.
- There is an equation editor that handles complex equations and special characters such as Greek letters.
- Questions can be created using user-friendly wizards.
- Meta-data can be saved with the questions.
- Several reports exist for analytics.



How we use Perception

- Multi-user web-based environment where all sites access one repository
- Routine data backup and disaster recovery.
- Integrated with training data in LMS
- Standard templates that contain the formatting
- Workflows document the approval of questions
- Results are archived to PDF files using batch processing



Results

So far we have:

- 250 assessments
- 15,000 questions
- 120,000 completed assessments
- Average is about 500 completions per assessment



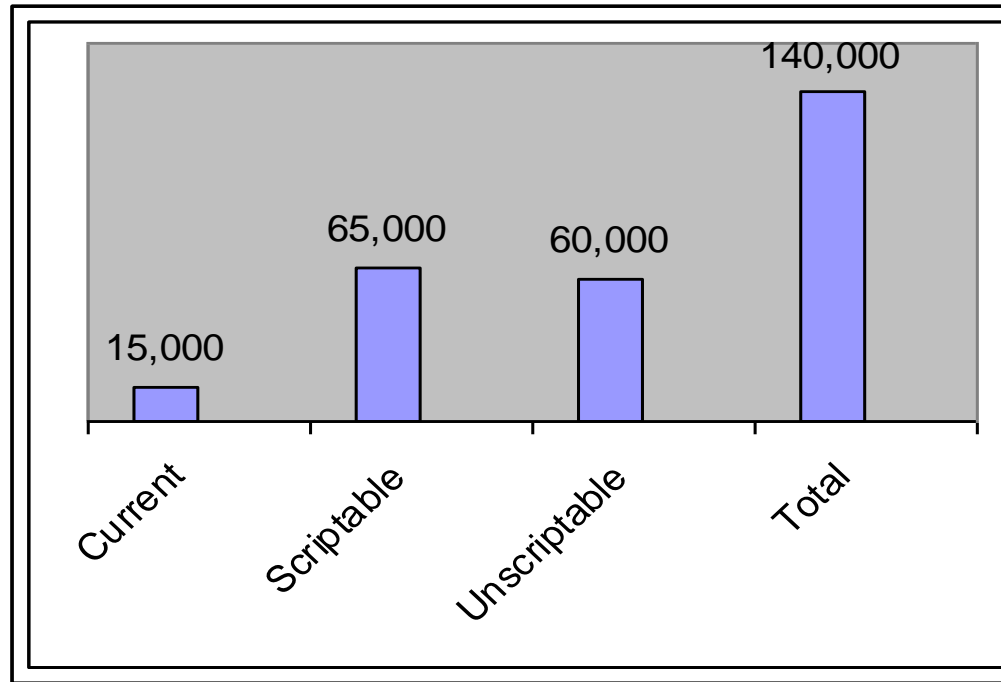
Benefits of Online Assessments

For every assessment that has been created:

- 500 assessments did not need to be graded
- 500 records did not need to be recorded in the LMS
- 500 records did not need to be archived
- Students received immediate feedback linked back to the training content
- Test and item analysis is readily available



The Challenge: Data Conversion



- New feature in 4.4 includes Topic tag
- ASCII Import does not include meta-data



Scripted Conversion Process

- Save questions to a Word document
- Save the document to text file
- Run script to insert tags
- Run script to import meta-data
- Import questions into Perception
- Add graphics or equations
- Validate questions against source
- Approve questions using workflow



Unscripted Conversion Options

- 1. Hire temporary administrative staff
- 2. Reenter questions going forward on an as-needed basis



Advice / Lessons Learned

Use AICC parameters to populate the special fields in Perception

- LMS student ID can be passed using PIP file
- LMS course ID can be passed using AICC parameters (S1=LMS_ID)



Conclusion

When we are done we expect:

- Best examination tool in the nuclear industry
- Standard examination process for our fleet
- Documented review and approvals
- Data sharable between sites
- Just-In-Time online exams
- Better analysis of the data
- Batch archiving of results

