

Apotex eCTD Experience



Agenda

- About Apotex
- Implementing eCTD
- Current eCTD Process
- Managing eCTDs
- eCTD Experience
- Looking Ahead

About Apotex

- Largest Canadian owned pharmaceutical company
- Produces more than 260 medicines to 115 countries
- R&D expenditures for Apotex over \$153 million in 2005

About Apotex

- Apotex initiated the Electronic Regulatory Submission Project in late 2001, and completed in April 2004
- The driving force of this project
 - Optimizing productivity, efficiency and decreasing cost
 - Sharing submission information
 - Most of all, reducing cycle time

Implementing eCTD

- Project preparation
 - Support from the Executives
 - Project team from all areas of business
- Business process evaluation
 - Understanding the new workflow and identifying the gaps
- Evaluating vendors
 - Tools fit the business process
- Validating all processes

Current eCTD Process

- Tools for e-information management, exchange and submissions
 - Waters Nugenesis
 - » Electronic scientific data management system for lab information
 - » “Cut and paste” into MS Word template for submission
 - BroadVision – One-to-One Content
 - » Electronic document management system for submission information
 - » Electronic workflow, Approved PDF on Web for submission

Current eCTD Process

- Lorenz docuBridge
 - » Electronic submissions management system
 - » “Drag and drop” PDF or MS Word files into docuBridge from Web to compile the eCTD
 - » Printout where required
- LabelBridge
 - » SPL
- Access to eCTD building tool through Intranet via citrix

Managing eCTDs

- Regulatory Operations managed eCTD pilots to transition business to the electronic world
 - Initiated e-submission plan
 - Trained and supported business
 - Managed pilots for all regions
 - Communicated with TPD to verify Sample eCTD
- As of February 2006
 - Compiled 31 ANDS for Canada
 - Submitted 15 (0000) and 4 (0001) to TPD

Managing eCTDs

- Support from the Executives
 - All new submissions and their PLCLM will be eCTD
 - All submissions will be created in eCTD building tool
- Continue to manage the uniqueness of each regulator's process
 - Paper burden from CAN and EU regulators
 - Electronic only for US
 - STF, SPL & PIM requirements

eCTD Experience

- Establishing open communication
 - Starting early
 - transparency
- Training
 - Business may require ongoing refresh training after initial implementation
- Establishing a permanent support structure for the business

eCTD Experience

■ Our approaches and learning

- Open communication with TPD
- Assist the business to transform the pCTD to eCTD world
- Table of content not required for eCTD
- Delete the empty nodes where not applicable
- Avoid scanned PDFs (images) if possible
- pCTD includes “N/A” documents but not required for eCTD
- Submission documents contain bookmarks at template level
- Content Management as important as eCTD
- Large monitors for ease of hyper-linking and reviewing
- Sharp leaning curve required with US eCTD only submissions

eCTD Experience

■ Feedback from TPD

- Apotex is one of the sponsors who submitted many submissions in eCTD format
- File eCTD samples in advance of real eCTD
- IT report from TPD
- No node extensions accepted in M3 and M5
- Unable to read bookmarks which are included in the backbone (TOC)
- Several corrupted PDF files and dead hyperlink were submitted
- A top folder with an e-Identifier is required
- Proper orientation of electronic files and preset landscape document

eCTD Experience

■ Challenges

- Difficulties to manage the pCTD and eCTD at the same time
- Associates will need to keep on top of the eCTD LCM
- Continuing to improve the quality of eCTD both internally and externally
- More hyperlinks required
- pCTD is modular, eCTD is very granular, develop submission in pieces and approve pieces separately

Looking Ahead

- Working together with TPD
 - Taking the advantage of Co-Submissions and moving towards hybrid submissions for PLCM
 - Participating hybrid submissions (July/06)
- Comply with Revised/Draft Guidelines
 - More detailed than previous versions
 - Guide the business with “Best Practices” to comply with requirements
- Integration of documentation and submission management system to increase performance and efficiency



THANK YOU!