



LEERS 2 *THE NEXT GENERATION*

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October 12, 2010
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What is CERS 2.0?

- ▶ CERS 1.0 introduced Oct.2009 to meet initial AB 2286 electronic reporting requirements
 - ▶ Various CERS upgrades (1.x) occurring ~monthly during 2010 (see [CERS Version History](#))
 - ▶ Many significant database and process changes to CERS needed to fully meet all electronic reporting mandates
 - ▶ Design work is underway
 - ▶ Portions of CERS 2.0 will start to be released during the 2nd half of 2011
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What's Missing in CERS 1.x?

- ▶ A partial list...
 - Not all Unified Program elements included (AST, Haz waste generators, etc.)
 - Segregation of CUPA/PA workflows/approvals
 - Difficult to determine differences between submittals
 - No inspections/enforcement screens
 - More linear user interface for business submittals
 - Allow businesses to pre-validate their submittals
 - Lots of reports...
- ▶ And most importantly...
 - Electronic data exchange

Why are these Features Missing?

- ▶ Many complex needs—not all could be implemented in the first version
 - ▶ CERS 1.x based upon design/assumptions of its UNIDOCS precursor
 - More regional orientation
 - Mostly focused on Biz Plan and Inventory elements
 - No hard mandates for business or regulator users
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Electronic Data Exchange Features

- ▶ Electronic data exchange requires full review of data dictionaries, processes, etc.
 - Data Dictionary not designed for XML data transfer
 - Not all processes defined (e.g., ownership changes)
- ▶ Data entry via web forms can be controlled by human-driven validation/intervention...
- ▶ **BUT** electronic data exchange is a Machine-to-Machine process with no human intervention.
 - Ambiguity must be minimized, or manual intervention required and cost/benefit is lost.

Moving Forward with CERS 2

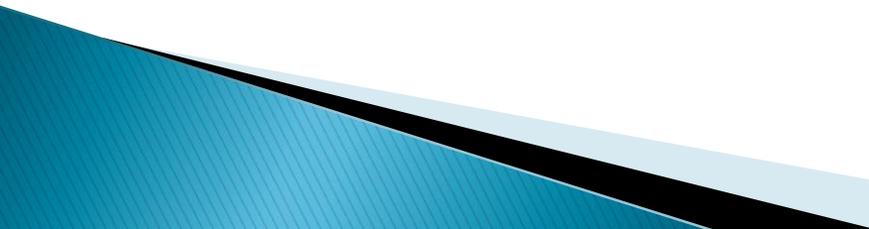
- ▶ Unified Program Technology Services staff and contractors beginning design work
 - Review/design of new underlying database
 - Documentation and revision of business processes
 - New user interface models for businesses
 - Development of data exchange schemas
- ▶ First deliverables expected Q2 of 2011
- ▶ Electronic data exchange services available ~late 2011

Dates provisional on no new state budget/contracting issues

Summary of Anticipated Major Features in CERS 2



CERS 2: Submittals / Approvals by Program Element

- ▶ A business' submittal can contain some or all program elements.
 - ▶ Review / approval of program elements will be performed by the appropriate UPA for the businesses jurisdiction.
 - ▶ Different submittal / review schedules permitted and trackable by program element.
 - ▶ UPAs can prioritize submittal review by determining what and how many program elements a submittal includes.
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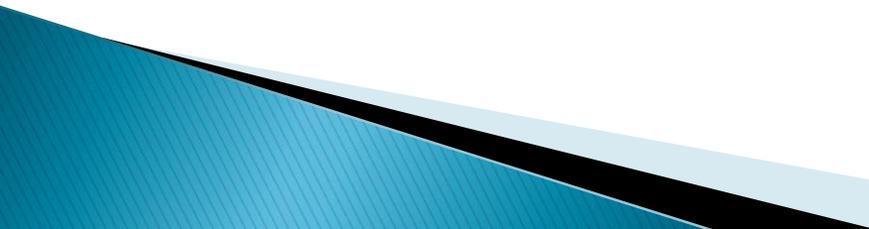
CERS 2: Detecting Differences Between Submittals

- ▶ Both business and regulator users will be able to quickly determine the differences between submittals (both visually and statistically).
 - ▶ UPAs will be able to quickly determine pro forma submittals and instead focus on those with substantive changes/new program elements.
 - ▶ Differences will be stored for rapid future retrieval and for reporting.
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CERS 2: Separation of Business/Regulator User Interfaces

- ▶ Separate business/regulator user interfaces will support better submittal approaches for business users:
 - A linear approach for new/complete submittals.
 - A focused approach for submittal updates for one or more specific programs (e.g., new UST).
 - Better Help support for business users.
- ▶ Regulator user interface can be more focused and task-based.

CERS 2: Support for Businesses with Multiple Facilities

- ▶ A new “business” entity will support processes and associated with businesses with more than one facility.
 - ▶ A “business” is a collection of one or more users that can manage a collection of one or more facilities.
 - ▶ Unified Program would authorize users for large multi-jurisdictional businesses.
 - ▶ Processes still needed for “businesses” that evolve into multi-jurisdictional over time.
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CERS 2: UPDS Merges into CERS + Inspection/Enforcement Features

- ▶ Current UPDS functionality for hazardous waste generator inspections will be expanded to serve all program elements.
 - ▶ CERS 2 will support both the current inspection summary schema, as well as a new schema for inspections with violation details.
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CERS 2: Submittal Validation

- ▶ More detailed validation of program element submittals will be added (e.g., blank fields, missing uploaded documents, etc.).
 - ▶ Web form business users will need to pass an automated “audit” prior to submitting data (similar to tax preparation software).
 - ▶ Same business rules will be applied to electronic data exchange submittals (but no human intervention!)
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CERS 2: Reports

- ▶ Addition of many reports not currently available because of anticipated database redesign.
- ▶ Management reports for regulators to determine status of business reporting:
 - Who has submitted
 - Who has previously submitted and now overdue
 - etc.
- ▶ Separate read-only reports portal for local/state regulators, US EPA, other authorized users to view/extract CERS data.

CERS 2: Electronic Data Exchange

- ▶ This is the hard part—issues and business process issues likely to arise in coming months.
- ▶ Automated XML data exchange is MUCH different than “flat file” CSV/TSV/Excel uploads:
 - Data structured in a more complex format
 - Schema changes more flexible/less drastic coding
 - Partial submittals allowable
- ▶ If any flat file uploads supported, they will not be in real time or allow partial submittals.

CERS 2: Miscellaneous Features

- ▶ Better Document Management
 - ▶ More field level/specific help
 - ▶ Archiving of all system generated emails
 - ▶ User-configured alerts/ticklers
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Anticipated Issues for CERS 2

- ▶ Some UP data dictionary changes will be required.
 - ▶ Standardization of business processes may be required across UPAs (e.g., handling new owners for an existing facility).
 - ▶ More coordination may be required between CUPAs and PAs than in the past.
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Call To Action

- ▶ Participate and/or review notes of CERS Regulator User Group meetings
 - ▶ Provide feedback as issue/discussion papers are circulated
 - ▶ Patience...
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Questions

- ▶ Visit the CERS Help Site
 - <https://cers.calepa.ca.gov/Help/>
- ▶ Contacts
 - Chris Allen (callen@calepa.ca.gov)
 - Dan Firth (dfirth@calepa.ca.gov)