Agenda

• Goals of WellSTAR
• Requirements Analysis & Use Cases
• Architecture General Design
• User Interface Standards
• OCM Plans & As Is Business Process Models
• Release Plan & Implementation Plan
• Project Analysis and Visualization
• Stakeholder Involvement
• What’s Next?
Goals of WellSTAR

• Standardize business processes across all offices in the DOGGR organization

• Well Stimulation Treatment (WST) permitting
  • Allow oil and gas operators to report on well stimulation treatments and provide the public automated access to well stimulation data

• Produced water data collection
  • Automate the quarterly reporting of collecting electronic oil, gas, and water data from operators as part

• Support annual reporting

• Electronic permitting system for oil and gas operators

• Allow operators direct access so they can input data
WellSTAR

Requirements Analysis & R1.0 Use Cases
Requirements Analysis

Requirement Count through the 90-Day Period

- **4/14/2016 POC**: Conversion 0, Functional 0, Technical 473
- **7/15/2016 Legacy**: Conversion 0, Functional 0, Technical 927
- **8/19/2016 Product**: Conversion 0, Functional 0, Technical 1501
- **8/19/2016 Inventory**: Conversion 5, Functional 144, Technical 1729
- **8/29/2016 Pass 1**: Conversion 5, Functional 152, Technical 1492
Use Cases

Entity Management
  UCA01  Create Entity
  UCA02  Maintain Entity

Bond Management
  UCB01  Create and Maintain Bond
  UCB02  Release Bond

Administrative
  UCC01  Generate Form Status List

General
  UCD01  Login External User
  UCD02  Manage Task
  UCD03  Upload Document
  UCD04  Create Comment
  UCD05  Generate Notice
  UCD06  Generate Report
  UCD07  Search WellSTAR
  UCD08  Access Online Help
WellSTAR

Architecture General Design
Architecture General Design

Presentation Tier
- Online Form Portal
- Agency Portal
- Service API (G2G/B2G)

Business Tier
- REST Web API
- Business Components
  - Bond Management
  - Entity Management
  - Online Form Management
  - Administrative Management
  - Report Management
  - Security Management
- Services & Integration
  - Business Rules
  - Workflow
  - Notification
  - Service Bus
  - CalWIMS
  - B2G/G2G
  - Document Management
- Utilities & Batch
  - PDF Generation
  - Batch Processing

Data Tier
- Data Access Components
  - Entity Framework
  - Data Transfer Object (DTO)
  - SSRS
  - SSIS
- Service Repositories
  - WellSTAR Online Form DB
  - WellSTAR Core DB
  - WellSTAR Reporting DB
  - Business Rules
  - Workflow
  - Service Bus
  - Notification

Cross-Cutting Components
- Logging
- Caching
- Exception Handling
- Security
USER INTERFACE STANDARDS
User Interface Standards
OCM Plans & As Is Process Models
OCM Plans & As Is Process Models

• Organization Change Management Approach
• Stakeholder Management Plan
• Project Communication Plan
• Training Approach
Release plan & Implementation Plan
Release Plan

Project Release Plan

R1.0 (8/31/17)
- Technical Architecture
- Bond Management
- Entity Management
- Administration
- General

R2.0 (4/30/18)
- Well Management
- Transfer
- Production
- Payments
- Facility
- UIC
- Wellbore Diagram
- Administration
- General
- CEQA Tracking
- GIS Integration

R3.0 (10/31/18)
- Incidents
- Complaints
- Inspections
- Idle Well
- Compliance
- Public Access
- Construction
- Administration

R4.0 (4/30/19)
- CEQA
- Well Stimulation
- Gas Storage
- Pipeline
- Embedded Map
- Optimizations
Implementation Plan

- Release Specific Training & Conversion Plan
- Cutover Approach
WellSTAR

Project Analysis and Visualization
Project Analysis and Visualization

Release 1 DM, Testing, OCM, and PM
DOC Involvement

• DOC/DOGGR Resource Participation
  • 88 - Requirements Analysis
  • 22 - Use Case Development
  • 12 - Architecture General Design
  • 22 – User Interface Standards
GWPC Involvement

- Mike Paque
- Paul Jehn
- Thom Kerr
- Alex Code
- Jim Milne
- Jessica Kane
- Don Drazan
- TJ Groves
What’s Next

• Release 1 Design, Develop, Implement (August 31, 2017 Go Live)

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