

Virginia DEQ Comprehensive Environmental Data System (CEDS)

NACAA Permitting and Enforcement Workshop February 26, 2020

What is CEDS?

Comprehensive Environmental Data System

Single Repository for Permitting, Compliance , and Inspections data for Air, Water,Land (SW)

■Also includes TMDL, WQMA, Petroleum Tanks, and Enforcement Modules

■Y2k Project

- ■Uses "Core Facility Model" with some exceptions
- ■Oracle Db with UI originally developed in Oracle Forms and Reports 1997 2002

CEDS Modernization Effort

Revamp of entire system (~50 modules / 150 DB tables, 5 schema)

■Effort began ~March 2015

Had to be complete no later than August 2016 due to Virginia InformationTechnology Agency (VITA) Security mandate

Strategy

- Use a common framework & reusable patterns
- o Break functionality into smaller pieces
- Develop iteratively
- Break down the walls between Business and IT
- Don't neglect user adoption
- Add/Update Business functionality where practical

Air Permit Module Problems

- Optional Data Fields wildly varying data
- Difficult to access data
- Multiple redundant systems were maintained at the office/region level
- For program staff, there was no benefit from the system; just a data entry task

Development Approach

- Workgroup (for permit module) consisted of diverse collection of staff/program managers and central office/regional office staff together with administrative support
- Collaboration with IT resources
- Buy-In / Ownership

Air Permit Module – Fixes

- Improved integration of programs
- Lean and eliminate optional data
- Upgrade interface and report capabilities
- Search functions

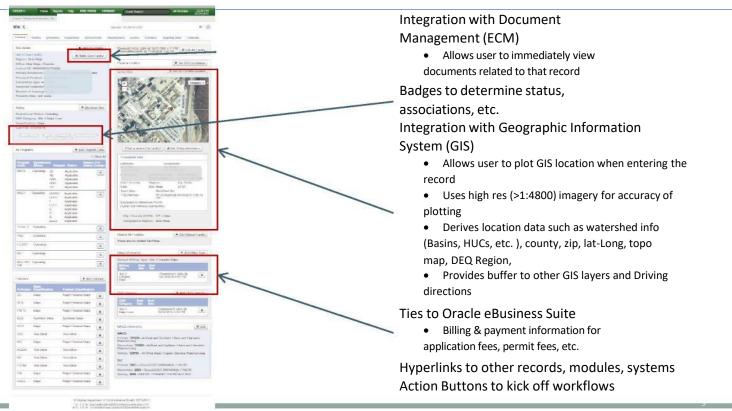
Air Permit Module - Upgrades

- Data Layers = Designed for staff, program managers and upper management
- Easy access to prior permits for facility / similar facilities / Program Searches
- Workflow Tool for staff
- Minor NSR BACT Database

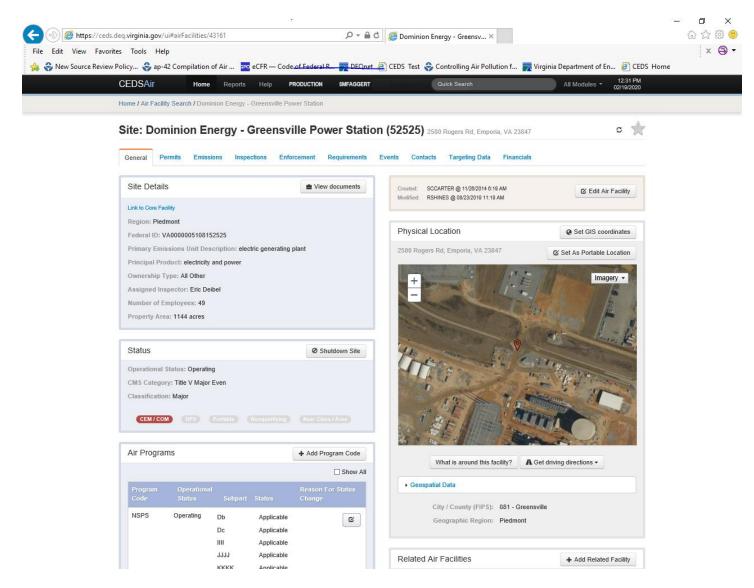
IT Platform

- Web Based (email links)
- Directly tied to VADEQ's electronic file system
- Adaptable to future public use
- Oracle Database
- .net user-interface

Innovations in plain sight



General Screen



Permits Tab

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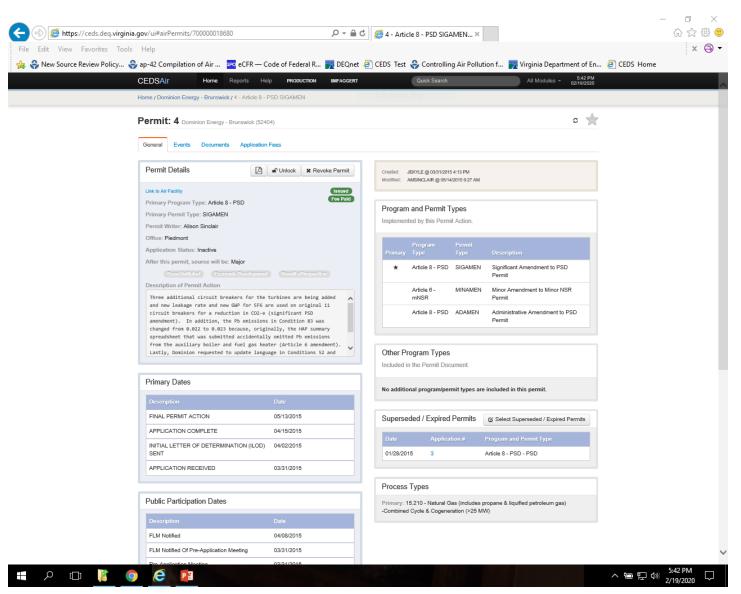
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Application Screen



Document Screen

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Questions????



