

OE-3: 2021-04



September 2021

# Introduction to the

# **Corporate Safety Performance Dashboard**

### PURPOSE

The Corporate Safety Performance (CSP) Dashboard allows Department of Energy (DOE) management to select and display a variety of environment, safety, and health (ES&H) metrics to support the analysis of those topics of greatest importance to the user. The CSP dashboard has been developed to support continuous improvement in ES&H performance by extracting real-time data from existing DOE databases and displaying results in a dashboard format, with the ability to present data at the site, program office, or Department-wide level.

## BACKGROUND

The Office of ES&H Reporting and Analysis (AU-23) maintains several corporate data systems, including the Occurrence Reporting and Processing System (ORPS) and the Computerized Accident/Incident Reporting System (CAIRS). While each system provides valuable information within its reporting scope, DOE offices have long sought to display key ES&H metrics in a summary or dashboard format to help identify potential performance gaps or improvement opportunities. As an example, in 2012 a team of DOE subject-matter-experts and managers developed a prototype ES&H Corporate Safety Performance Dashboard to display key performance data on a DOE web site. However, the effort was limited by the need to manually update the charts to remain current. The prototype also only displayed pre-defined search results and could not be queried in real time.

The new CSP Dashboard solves these problems through a real-time link to data in ES&H databases, supporting dynamic query and display options to present the latest data in multiple ways.

### DISCUSSION

In 2018, AU-23 updated the Nuclear Safety Information (NSI) Dashboard by creating an auxiliary dashboard to collect and sort ORPS data correlating to the revised Order requirements. (See <u>OE-3: 2017-05</u> for NSI dashboard information). The NSI dashboards include sorting features such as reporting criteria, keywords, and significance categories and reporting levels.

Once DOE customers accessed the NSI, there were requests to establish a dashboard with standardized metrics that represented a broader set of key fundamental ES&H data. This request led to a re-establishment of and major update to the 2012 CSP prototype dashboard.

There are seven CSP dashboard pages:

- ORPS Program Secretarial Officers (PSOs)
- ORPS Sites
- ORPS Keywords and Cause Codes
- Worker Safety (includes data from CAIRS)
- ORPS Environmental events
- Nuclear Safety information (includes links to the radiation exposure database), and
- Strategic Safety Goals (the most unacceptable outcomes the Department strives to avoid).

Exhibits 1 and 2 show two of those pages.

#### Exhibit 1: Example of the "ORPS - PSOs" page of the CSP Dashboard



# Exhibit 2: Example of the "Strategic Safety Goals" page of the CSP Dashboard

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daho National Engr. & Envir. Lab:ICP			Code	e Description											
		2A(1)	A(1) FATALITY Any occurrence due to DOE operations resulting in a fatality or terminal injury/illness.												
			2B(1) FIRE IN A NUCLEAR FACILITY Any fire within primary confinement/containment boundaries of a nuclear facility, except a fire that self- extinguishes in ten minutes or less.												
			5B(1) IMPACTS ECOLOGICAL/CULTURAL RESOURCE Any occurrence including releases causing significant impact to ecological or cultural resource for which DOE has responsibility under applicable laws, regulations, and Executive Orders. For example, extensive damage to, or destruction of: (a) Ecologically preserved areas, or pristine or protected wetlands; (b) Threatened or protected flora or fauna or critical habitats; (c) Potable drinking water intake or well usage; or (d) Historical/archeological sites.												
		5B(2) EXTENSIVE ENVIRONMENT DEGRADATION Any occurrence, including releases, resulting in extensive environmental degradation (e.g., fish kill; notable loss or relocation of native species; need for interdiction of crop sales; or restriction to human access).													
		6A(1) RADIOLOGICAL MATERIAL OFFSITE Identification of radioactive material offsite due to DOE operations/activities that exceeds applicable DOE limits (pursuant to DOE O 458.1, Radiation Protection of the Public and the Environment, current version).													
		6C(1) RADIOLOGICAL DOSE Determination of a dose that exceeds the limits specified in 10 CFR Part 835, "Occupational Radiation Protection," Subpart C, "Standards for Internal and External Exposure," or in DOE O 458.1 Chg 3, Radiation Protection of the Public and the Environment, dated 1-15-13, paragraph 4.b(1)(a) [paragraph 2.b(1)(a) of the CRD], "Public Dose Limit."													

#### PATH FORWARD

The Office of ES&H Reporting and Analysis will continue to work with our PSO counterparts to obtain feedback on what ES&H data is most useful to display in the dashboard. Updates will be planned and deployed based on the feedback received.

#### How do you access the CSP?

The Corporate Safety Performance Dashboard can be found at: https://data.doe.gov/MS/asp/Main.aspx.

An ORPS UserID and Password are required to access the dashboards. To update your credentials to an expired ORPS account, contact ORPS Support at 800-473-4375, <u>ORPSSupport@hg.doe.gov</u>.

If you don't have an ORPS account, you will need to obtain one by filling out the User Registration Form (PDF), found at: <u>https://registration.doe.gov/registration/ORPSRegi</u> <u>stration</u> before acquiring a password and UserID.

#### **SOURCES OF INFORMATION**

- 1. Nuclear Safety Information Dashboards: https://data.doe.gov/MS/asp/Main.aspx.
- 2. Occurrence Reporting and Processing System: <u>https://orps.doe.gov/</u>.

Feedback, questions or assistance regarding the CSP, NSI, or this OE-3 document should be directed to Jay Larson at 301-903-9869 or jay.larson@hq.doe.gov.

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