Field Force Automation

Data Management Methodologies and Systems for Field Data Collection and Reporting

Region 6 Data Management

• Data is key component to all EPA operations.

• Historically, Data was often taken in log books, or in electronic formats that are incompatible or not designed for easy reporting/analysis.

• Goal is to incorporate into routine day to day operations data management standards to insure data quality and availability.

• Methodology for collecting data in a way that EPA/Contractors are able to access/analyze the data near real time (Emergencies, Reports, Day to Day Ops)

• The answer "Regional Response Center Enterprise Data Management System" or RRC EDMS.

Overall RRC-EDMS: Architecture



Region 6 Web Hub

• Web hub provides one access point for all applications to EPA and START personnel.

• One username and password for access to each application

Web Hub Websites Contact Management System • EPA Exercise Registration • FRP SPCC Tracking • Lake Oologah • EPA WEB HUB • OSCARS SARTS • Remote Monitoring

Region 6 Site Owner Administration

• Site Owners have ability to administer accounts through easy to use intuitive interface.

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SARTS – OPA Recon Application

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SARTS – PDA Application



SARTS – Secure Web Site

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Site Assessment Reconnaissance Tracking System

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Facility Information Management System - FIMS



EPA/OSC Personalized Secure Web Interface

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FRP - Integrated User Management



FRP – Uploaded Plan

• FRP's are one Click away

 FRP's can be Bit Served so User only downloads section of interest

 Immediate Access to ERAP, Facility Diagrams, and other important Data.

FRP/SPCC Tracking System

FRP/SPCC Inspection Tracking System

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GIS PDA Applications

ArcPAD PDA GIS Routing Capability

ArcPAD PDA Streets with Topographic Data

Disconnected Editing of GIS Layers

FRP/SPCC Inspection Tracking System (cont.)

Role-Based Menu Options

Online User Management

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FRP/SPCC Inspection Tracking System

 Inspection checklist matches
 FIMS Review
 Checklist and
 PDA Application

• Reviewers can click a section and in automatically will take them to that portion of FRP.

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GIS Interface

OSCARS GIS Interface - Tracker

OSCARS GIS Interface

OSCARS – Interactive Mapping Site

Emergency Response Tracking System

Emergency Response EDMS

Mobile Applications

Secure Web Applications

Emergency Response EDMS

• Reports are auto-generated in electronic format.

 Format consistent with Region 6 Electronic Deliverables Standard.

 Reports consistent with SDMS format.

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	D Copy of Consent for Accord						
t./	D Attackmark 0		THIS DOCUMENT WAS PREPA	RED BY WESTON SOLUTIONS, IN	C. EXPRESSLY FOR EPA. IT SHALL	L NOT HE RELEASED OR DESCLOSED	IN
<u> </u>	Attachment G		WHOLE OR IN PART WITHOUT	THE EXPRESS, WRITTEN PERMISS	ION OF EPA.	TRADE IN A REAL	"
	L Copy of NDC Dopart No. 2	41-14-4	A of 46 NN -85	(11 in 🔲 🖳		112, 20, 0001-0-0	
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THEMEDANAM ATAD STEACID ALEMULDIC ABBREVIATED TIMELINE

Disaster Occurs Saturday, February 1, 2003 8 a.m. Central Time

03M-0117.2

Technology @ WESTON

COLUMBIA DISASTER DATA MANAGEMENT ABBREVIATED TIMELINE

D126	-		or or
Refresh Tea	m Items	Add New Item	
Sort by El	PA ID	Sort by Date Time	
D126-0002	:	2/7/03	
D126-0001	ź	2/7/03	
D126-0003	2	2/9/03	
D126-0004	ŝ	2/12/03	
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D126-0007	ŝ	2/15/03	
D126-0008	i	2/15/03	
D126-0010		2/16/03	
D126-0005	Item	Info	
0128-0011	EPA ID	D126-0001	
	-	·	
	Team	D126	▼
	Sampler	VAN TREUEN/RAND	OLPH
	Latitude	32.8241	
	Longitude	-96.70797	
		Convert DMS to) DD
	Date/Tim	e 2/7/03 Select Date/Ti	ime
		Save	

	Sync Configuration
Photo Log	Select Config
Add New Refresh	Shuttle Disaster 🔶 Refresh
D126-0001&-020703	Internet
D126-0001B-020703	URL:
	http://start6.westonproject.net/ssce/ssc
	User ID:
	Password:
	Proxy:
	Publisher
Photo Info 🔺	Sever Name:
Photo ID Roll Exame	extranet6
	Database Name:
	stsr
Photographer Photographer	Publication Name:
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Date/Time	
Select Date/Time	Use SQL Authentication
	Subscriber
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Save Log Entry) Program Files) STS Recovery) stsr sdf
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COLUMBIA DISASTER DATA MANAGEMENT ABBREVIATED TIMELINE

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			west project net/coldmb	Logout	TIndata This Itam	1 2000 T F 7	0056 NON	FDA DIMAV	NE CONKT IN	2/2/2003	31 5665	OA 637		
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Update items	Close Out	Date Found	ate Found 2/5/2003 12:25:00 AM											
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COLUMBIA DISASTER DATA MANAGEMENT Abbreviated Timeline

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<u>Items</u> Message from Christie Whitman	General				Searc	n for Lo	cation t	o Close	Out		
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Reports	View Map	potential s	huttle mater	rial, click the "	'Close Out''	link the indi	cate that the	location has	been inve	stigated.	
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COLUMBIA DISASTER DATA MANAGEMENT ABBREVIATED TIMELINE

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		Columbia Recovery					
General Main Menu		Photo of ' <u>48073-1</u>	<u>10-0021</u> '				
<u>Web Hub</u> View Map	EPA Photo ID	48073-10-0021	Roll				
	Date Taken	2/5/2003 12:25:00 PM	Frame				
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View	wing structure, 1	piece	<u>_</u>				
Message from	1		-	High Resolution Image of 48073-10-0021 - Microsoft Internet Explorer			
Christie	No image for this reco	ord. Use the Upload This Photo buttor	n to upload a photo.	He Back ▼ → ▼ ② ③ ④ ④ ③ Search ⓐ Favorites ④ Media ③ □ □ ▼ ■ □ ♪			
Whitman	Upload This Photo			Links Customize Link: * Address Address https://dm.westonproject.net/columbia/popups/showlargeimage.asp?record={5175C5CE-20D8-4D37-97C 🗸 🔗			
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COLUMBIA DISASTER DATA MANAGEMENT Abbreviated Timeline

Data
 Synchronization
 in the Lufkin
 Disaster Field
 Office.

• 250 PDA's per night had to by synchronized in 5 different field offices.

COLUMBIA DISASTER DATA MANAGEMENT ABBREVIATED TIMELINE

COLUMBIA DISASTER DATA MANAGEMENT ABBREVIATED TIMELINE

Query Tools - Microsoft Internet Explorer							
Query Map	Spatial Query Dialog and						
Comments: Enter keyword(s) to search for debris. Wing	results for the keyword "wing".						
EPA ID: Enter part or all of an items EPA ID EPA ID	Columbia Interactive Map - Microsoft Internet Explorer Ele Edit View Favorites Iools Help \Rightarrow Back $\rightarrow \rightarrow \sim @$ $?$ $?$ $?$ $?$ $?$ $?$ $?$ $?$ $?$ $?$						
Zoom to Selected Items Clear Highlighted Search Items Close Window	Home Zoom Na Zoom Active Zoom Previous Pan Identify Measure						
Done Conternet	Set May Units Debris Tools Use the Query Tools to search the debris info by keyword.						
	- Zoom In - Click or draw a rectangle on map to zoom in.						

COLUMBIA DIGASTER DATA MANAGEMENT Abbreviated Timeline

Monomethyl Hydrazine Tank

Ground Impact

COLUMBIA DISASTER DATA MANAGEMENT Abbreviated Timeline

Hydrazine Cylindrical Tank

High Pressure Helium Tank

COLUMBIA DISASTER DATA MANAGEMENT Abbreviated Timeline

Thruster Structure Assembly

Nose Cone

