

**2008 State Damage Prevention Program Grants Progress Report**  
**Funding Opportunity Number: DTPH56-08-SN-0001**  
**CFDA Number: 20.720**

**Award Number: DTPH56-08-G-PHPS15**

**Project Title: NH State Damage Prevention Program**

**Date Submitted: Feb 13, 2009**

**Submitted by: Randall S. Knepper, Jim Brennan NH Public Utilities Commission**

**Specific Objective(s) of the Agreement**

Under this grant award New Public Utilities Commission (NHPUC) will design and implement a computer based system that tracks, measures, analyzes and reports the overall effectiveness of Damage Prevention Program

**Workscope**

Under the terms of this agreement, the NH PUC will address the following elements listed in 49 USC §60134 through the actions it has specified in its Application.

- *Element (4):* Participation by operators, excavators, and other stakeholders in the development and implementation of effective employee training programs to ensure that operators, the onecall center, the enforcing agency, and the excavators have partnered to design and implement training for the employees of operators, excavators, and locators.

**Accomplishments for this period (Item 1 under Agreement Section 9.01 Progress Report: “A comparison of actual accomplishments to the objectives established for the period.”)**

The progress report is for the period of Dec 11, 2008 until Feb 13, 2009. From Dec 11, 2008 until January 1, 2009 little progress was made due to the massive power outages the state was dealing with and lack of power in personal homes and business. This project as well as most things including every day operations that were scheduled were affected. After January, when power was restored and holidays had passed, the last 6 weeks have shown continued progress on the project. It is noted that the initial progress report of Dec 11, 2008 was never submitted to PHMSA due to a mixup within the NH PUC. Randy Knepper takes responsibility for not following up on the progress report. It was decided to include a second progress report to indicate the areas where continued progress has been made.

The project is originally broken down into 6 main elements but a new element #7 has been added to the project that was not originally included

1. Business and Technical Planning Requirements
2. Databases
3. Business and Data Tier Application
4. User Interface Systems
5. Security
6. Data Loading
7. Infrastructure

One of the main adjustments that needed to be made was the FILE net structure of the database has changed. A new Share Point data structure is being deployed by some of the state agencies including the NH PUC. This resulted in an additional step required. All of the elements showed some progression except for elements 5 security and 7 Infrastructure in which no advancement had been made because of the recent inclusion. A summary and detail pdf of the project is included which shows which elements and sub elements progress has been advanced. The Red in the Project Scheduler shows those items that have been pushed out from the Dec 11, 2008 update and the Blue indicates those that are new to the project.

During the initial progress report it quickly became apparent that the Feb 28, 2009 deadline would need to be extended another 60 days until April 30, 2009 because of the administrative process which took 90 days and was originally anticipated to only take 14 days or less. We do not believe that the project will take longer than the April 30, 2009 anticipated completion date.

**Quantifiable Metrics/Measures of Effectiveness (Item 2 under Agreement Section 9.01 Project Report: “Where the output of the project can be quantified, a computation of the cost per unit of output.”)**

Since the Dec 10, 2008 project update the number of sub elements increased from 47 to 56 with the identification of the Infrastructure Element. Overall 30 of the 56 identified project sub elements have had progress on or are substantially completed. They are listed on the attached Project Detail. From an overall perspective this represents 53% . Note all planning elements have been totally completed. The break down is as follows:

Business and Technical Planning Requirements	13 of 13 sub elements (100% substantially completed)
Databases	6 of 13 sub elements (46% substantially completed)
Business and Data Tier Application	4 of 8 sub elements (50% substantially completed)
User Interface Systems	4 of 6 sub elements (66% substantially completed)
Security	0 of 4 sub elements (0 % substantially completed)
Data Loading	3 of 5 sub elements (60% substantially completed)
Infrastructure	0 of 7 sub elements (0 % substantially completed)

The above can be misleading because the man hours associated with each task are breaking down differently than originally projected. Since this is a project that will not be undertaken every year it is decided to not track manhours by each sub task but just associate man hours to the total project.

**While it appears the progress is only at the 53% mark which is an improvement from the 38% mark previously reported enough momentum has built up that the NH PUC feels confident that this project will have deliverables by April 30, 2009.**

**Issues, Problems or Challenges (Item 3 under Agreement Section 9.01 Project Report: “The reasons for slippage if established objectives were not met. “)**

The NH PUC is content that there is no further slippage in the project aside from the initial slippage that occurred.

**Other pertinent information including, when appropriate, actions taken to address the recommendations PHMSA provided in correspondence dated [Different for each] (Item 4 under Agreement Section 9.01).**

We are unsure what is being asked by this question so do not know what this is meant.

It has been somewhat of a challenge to speak the language of excavation/damage/training to programmers but have been able to confirm if they understood what was being asked. It has proven for the most part to have been communicated overall but draft tests of screens have allowed modifications to occur that complete the feedback loop.

#### **Mid-term Financial Status Report**

An SF 270 is attached that does not ask for any more funds to be dispursed with this grant at this time. The NH PUC intends to submit on an attachment he remaining half of the SF270 if received for the \$27,500 at the completion of the project.

#### **Plans for next period (remainder of grant)**

The uncheckmarked boxes on the attached schedule will be worked on. See attached pdf. If any changes to detailed workscope are encountered the project scheduler will be updated. It is anticipated that all the boxes will have check marks next to them.

#### **Requests of the AOTR and/or PHMSA**

The NH PUC requests the project to be extended until April 30, 2009. It is anticipated that after that date screen shots will be ready to be included in a final report. It is readily apparent that this project will take in excess of 1.5 to 2 times what was originally projected and has consumed many more man hours than what was originally projected. While the NH PUC has not asked for any increase in funds per section 17 of the agreement and will keep the project amount contribution form PHMSA as to the original amount of \$57, 500 it is anticipated that total costs will be in excess of \$100,000 once this is completed.

We are planning on making a Power Point presentation to Commissioners at the conclusion of the project would PHMSA like this included with the final report? Is there any plan to exchange information with other states about our process?

ID	Task Name	a	Start	Finish	1st Half		2nd Half		1st Half		2nd Ha
					Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3
1	<b>SAFETY TRAINING TRACKING SYSTEM v20090213</b>	#	Mon 6/23/08	Thu 4/30/09							
2	BUSINESS & TECHNICAL PLANNING REQUIREMENTS	#	Mon 6/23/08	Mon 2/2/09							
16	DATABASES	#	Mon 7/7/08	Thu 4/30/09							
33	BUSINESS AND DATA TIER APPLICATION	#	Wed 10/1/08	Thu 4/30/09							
44	USER INTERFACE SYSTEMS	#	Tue 7/8/08	Tue 3/31/09							
51	SECURITY	#	Thu 7/31/08	Thu 4/30/09							
56	DATA LOADING	#	Mon 7/7/08	Thu 4/30/09							
63	INFRASTRUCTURE	#	Fri 2/20/09	Thu 4/30/09							

Project: Date: Fri 2/13/2009	Task		Milestone		External Tasks	
	Split		Summary		External Milestone	
	Progress		Project Summary		Deadline	

ID	Task Name	a	Start	Finish	1st Half		2nd Half		1st Half		2nd Half					
					Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4				
1	<b>SAFETY TRAINING TRACKING SYSTEM v20090213</b>	#	Mon 6/23/08	Thu 4/30/09												
2	<b>BUSINESS &amp; TECHNICAL PLANNING REQUIREMENTS</b>	#	Mon 6/23/08	Mon 2/2/09												
3	<b>Data Elements (people, orgs, incidents)</b>	#	Mon 6/23/08	Tue 1/20/09												
4	Determin data elements	#	Mon 6/23/08	Thu 7/31/08												
5	Map data elements to Safety Database	#	Mon 9/15/08	Tue 1/20/09												
6	Map data elements to meta data in EDM system	#	Mon 9/15/08	Tue 1/20/09												
7	Determin tracking metrics	#	Mon 6/23/08	Mon 1/26/09												
8	Determin access requirements	#	Mon 8/4/08	Fri 1/30/09												
9	Determin GUI Graphical User Interface	#	Mon 8/4/08	Fri 1/30/09												
10	Define reporting needs	#	Mon 8/4/08	Fri 1/30/09												
11	Determin platform requirements (windows,web,dataabse)	#	Mon 6/23/08	Thu 7/31/08												
12	Define functional rules	#	Mon 6/23/08	Wed 12/31/08												
13	Plan database security	#	Mon 6/23/08	Mon 2/2/09												
14	Plan communication and protocol for remote access	#	Mon 6/23/08	Fri 1/30/09												
15	Plan user access security - role based and AD	#	Mon 6/23/08	Mon 2/2/09												
16	<b>DATABASES</b>	#	Mon 7/7/08	Thu 4/30/09												
17	<b>Identify physical database required for project</b>	#	Mon 7/7/08	Fri 8/29/08												
18	Safety Database (SQL Server2005)	#	Mon 7/7/08	Fri 8/29/08												
19	IBM/FileNetP8 Database (SQL Server 2005) changing platform	#	Mon 7/7/08	Fri 8/29/08												
20	AltienADM Database (SQL Server 2005) changing platform	#	Mon 7/7/08	Fri 8/29/08												
21	pucaspnetdb (SQL Server2005)	#	Mon 7/7/08	Fri 8/29/08												
22	<b>Design/Configure Saftey database</b>	#	Fri 8/1/08	Wed 4/1/09												
23	Design logical schema	#	Fri 8/1/08	Mon 2/2/09												
24	Design objects, views, stored procedures	#	Fri 8/1/08	Mon 3/16/09												
25	Develop DDL code (SQL Server driver)	#	Fri 8/1/08	Mon 3/16/09												
26	Build phical database - vBeta	#	Fri 8/1/08	Fri 2/6/09												
27	Build phical database - v1	#	Fri 2/27/09	Wed 4/1/09												
28	Install DB on test server (infrastructure dependency)	#	Fri 8/1/08	Fri 3/20/09												
29	<b>Test</b>	#	Fri 8/1/08	Thu 4/30/09												
30	Unit testing (push out)	#	Fri 8/1/08	Fri 3/13/09												
31	UAT testing (infrastructure dependency )	#	Tue 1/6/09	Mon 4/13/09												
32	Security access testing	#	Fri 2/20/09	Thu 4/30/09												

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					Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4
33	<b>BUSINESS AND DATA TIER APPLICATION</b>	#	Wed 10/1/08	Thu 4/30/09								
34	Design	#	Wed 10/1/08	Thu 4/30/09								
35	Design .NET assemblies	#	Wed 10/1/08	Mon 12/1/08								
36	Design configuration	#	Wed 10/1/08	Mon 12/1/08								
37	Integrate database, data tier and business	#	Wed 10/1/08	Thu 4/30/09								
38	Test	#	Wed 10/1/08	Thu 4/30/09								
39	Unit testing	#	Wed 10/1/08	Mon 12/1/08								
40	UAT testing	#	Wed 10/1/08	Tue 12/2/08								
41	Virtualization and configuration	#	Mon 12/22/08	Thu 4/30/09								
42	Integration testing	#	Mon 12/22/08	Thu 4/30/09								
43	Security testing	#	Mon 12/22/08	Thu 4/30/09								
44	<b>USER INTERFACE SYSTEMS</b>	#	Tue 7/8/08	Tue 3/31/09								
45	Identify User Interface Systems for project	#	Tue 7/8/08	Fri 8/29/08								
46	PUCDataSystem	#	Tue 7/8/08	Fri 8/29/08								
47	AltienADMPro Changing platform	#	Tue 7/8/08	Fri 8/29/08								
48	eCase system	#	Tue 7/8/08	Fri 8/29/08								
49	design input screens	#	Mon 12/1/08	Tue 3/31/09								
50	Design public access screens	#	Mon 12/1/08	Tue 3/31/09								
51	<b>SECURITY</b>	#	Thu 7/31/08	Thu 4/30/09								
52	Plan security model	#	Thu 7/31/08	Wed 2/25/09								
53	Design security infrastructure Framework 3.0	#	Mon 12/1/08	Mon 3/2/09								
54	Security Integration across software, hardware and network systems	#	Fri 8/8/08	Fri 4/3/09								
55	Test and audit security (outside vendor)	#	Mon 12/8/08	Thu 4/30/09								
56	<b>DATA LOADING</b>	#	Mon 7/7/08	Thu 4/30/09								
57	Identify systems for data loading	#	Mon 7/7/08	Mon 12/1/08								
58	Saftey Database	#	Mon 7/7/08	Mon 12/1/08								
59	IBM/FileNet system (will change EDM platform) Changing platform	#	Mon 7/7/08	Mon 12/1/08								
60	Design	#	Mon 12/1/08	Thu 4/30/09								
61	Design import loading modules	#	Mon 12/1/08	Thu 4/30/09								
62	Start - Load data and content	#	Thu 4/9/09	Mon 4/27/09								
63	<b>INFRASTRUCTURE</b>	#	Fri 2/20/09	Thu 4/30/09								
64	<b>TEST ENVIRONMENT</b>	#	Mon 3/2/09	Thu 4/30/09								

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					Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4
65	<a href="#">web server - build</a>	#	Mon 3/2/09	Thu 4/30/09								PUC + consulta
66	<a href="#">database server - build</a>	#	Mon 3/2/09	Thu 4/30/09								PUC + consulta
67	<a href="#">configure web site</a>	#	Mon 3/2/09	Thu 4/30/09								PUC + consulta
68	<a href="#">configure database</a>	#	Mon 3/2/09	Thu 4/30/09								PUC + consulta
69	<a href="#">UAT site - build and configure</a>	#	Mon 3/2/09	Thu 4/30/09								PUC + consulta
70	<b>PRODUCTION ENVIRONMENT</b>	#	<b>Fri 2/20/09</b>	<b>Thu 4/30/09</b>								
71	<a href="#">determin host site</a>	#	<a href="#">Fri 2/20/09</a>	<a href="#">Thu 4/30/09</a>								PUC + consulta

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