Hanford Site Excavation Permit Application Automation Project - 15187

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# ABSTRACT

Mission Support Alliance, LLC (MSA), on behalf of the Department of Energy's Richland Operations Office (DOE-RL), recently implemented the Site Excavation Permit Application (SEPA) at Hanford. The SEPA automation replaced a 20-year-old manual excavation permit process that governed all Hanford Site excavation activities. The manual process required time consuming interaction between numerous resources for submitting an excavation permit to 15 separate permit organizations for approvals and signature. The process involved numerous information exchanges - usually by phone or emails, and substantial vehicle travel. It also generated large amounts of paper, lengthy wait periods and the need for continual status updates to permit reviewers until all approvals were obtained.

The new SEPA automated system is an entirely paperless application that streamlines over 25 separate manual permit activities into five Web-based processes. The new application provides sizable environmental sustainability benefits in terms of avoiding: paper waste, air pollution and biofuel consumption. SEPA also deploys automated innovations that produce an approximate 50 percent operational cost reduction when compared to the manual permit process.

### **INTRODUCTION**

The SEPA is a new automated web-based application that replaces an over 20 year old intensive manual process. The newly developed application creates notable environmental sustainability benefits while achieving significant operational process reductions. Through innovative development of specific work process mechanics, SEPA allows permit submittal, review and approval to be performed smarter, faster with more complete results. SEPA revolutionized the excavation process in comparison with the previous manual paper based methodology for the Hanford Site.

MSA teamed with Lockheed Martin Service Inc. (LMSI) to develop the SEPA system. When users access the SEPA system, the system initially opens the individual's SEPA Home Screen (see Figure 1). The Home Screen displays the user's s real-time summary level permit assignments and performance information at a glance. SEPA eliminates a majority of shortcomings associated with the manual process. There are many automated features benefitting permit users beyond what is noted within this paper. For brevity purposes, a sample of SEPA's features are outlined herein that promotes Environmental Stewardship sustainability goals and objectives.

| My Permit I         | Requests  |            | My Permit Reviews  |
|---------------------|-----------|------------|--|
| There are 10 active | permits.  |            | There are 8 open reviews in your queue.  |
| Permit Number       | Status    | Due Date   | Design Authority/Technical Representative Due Today.                                       |
| DAN14-0062          | Draft     |            | DAN14-0065 Due 04/09/2014 Current Review   |
| DAN14-0027          | Approved  | 02/16/2014 | Environmental Due Today.   |
| DAN14-0041          | Approved  | 03/07/2014 | DAN14-0065 Due 04/09/2014 Current Review   |
| DAN14-0045          | Approved  | 03/07/2014 | Radiological Control Due 1 in day  |
| DAN14-0043          | Approved  | 03/08/2014 | DAN14-0065 Due 04/10/2014 Current Review   |
| DAN14-0054          | In Review | 03/13/2014 | Transfer Lines & Process Sewer Due 9 in days   |
| DAN14-0040          | Approved  | 03/21/2014 | DAN14-0032 Due 04/18/2014 Current Review   |
| DAN14-0042          | In Review | 04/10/2014 | Safeguards and Security Due 1 in day<br>DAN14-0065 Due 04/10/2014 Current Review           |
| DAN14-0065          | In Review | 04/12/2014 |  |
| DAN14-0032          | In Review | 04/18/2014 | Land Use Planning/600 Area Landlord Due 2 in days DAN14-0065 Due 04/11/2014 Current Review |
| Create New Permit   |           |            | Facility/System Owner(s) (Ad-Hoc Only) Overdue 32 days                                     |
|                     |           |            | DAN14-0042 Due 03/08/2014 Current Review   |
|                     |           |            | Facility/System Owner(s) (Ad-Hoc Only) Due 3 in days                                       |
|                     |           |            | DAN14-0065 Due 04/12/2014 Current Review   |

Figure 1 - SEPA Home Screen

## Sustainability Goals and Objectives

**Environmental Management System (EMS)**: SEPA aligns with Environmental Stewardship goals and ISO 14001 objectives in areas of electronic stewardship, going green and waste prevention as part of environmental management guiding principles and core elements noted below:

<u>Promoting Environmental Stewardship:</u> SEPA creates the opportunity to engage environmental, cultural and ecological interaction more consistently and efficiently compared to the manual excavation permitting process. Environmental Stewardship was introduced to the Excavation Permit process by ensuring Environmental reviews are a mandatory review within the SEPA application. The application will not allow users to by-pass Environmental reviews in order to complete the permit. This feature guarantees the Environmental group's involvement with the Site's excavation permitting process. Environmental reviews were not consistently implemented nor adhered to during the manual process.

<u>Reduced fuel consumption and emission pollution prevention (Going Green)</u>: SEPA creates the opportunity to lower gas consumption and carbon dioxide emissions across the Site. SEPA facilitates permit interaction via web-based network processing which results in reduced vehicle trips between Permit Requesters and Permit Reviewer work locations. SEPA creates the potential to avoid consuming several thousand gallons of gasoline annually across the Site since requester and reviewer work locations could be up to 25 miles apart (there is the potential of up to 15 independent reviewers per permit application). Sustained vehicle transportation was an accepted practice for manual permit processing.

<u>Significant Reduction of Paper Waste (Waste Prevention):</u> SEPA is a turn-key paperless webbased automation tool which promotes Environmental Leadership objectives. The application eliminates the need to generate paper for all permit review transactions. The excavation permit data is stored on a centralized server where everyone involved with a specific permit has unconstrained access to the permit data. Therefore, the need to generate paper copies of the excavation permit is greatly reduced. Estimating an average of 270 excavation permits per year, the SEPA automation creates the opportunity to eliminate approximately 16,200 pounds of paper annually for the Hanford Site. Therefore the Site's Records Inventory and Disposal (RIDS) excavation field files reduction is significant when understanding that each permit requester and all permit reviewers keep independent paper files for all permit activities generated as part of the manual permitting process.

### **Operational Improvements**

In addition to the Environment Sustainability benefits, SEPA creates numerous operational efficiency benefits as well. Some of the benefits are outlined below:

| You have been assigned review resp              | consibility for the subject excavation permit. Please re | view the permit as assigned. |
|---|--|------------------------------|
| Excavation Permit Number:                       | DAN14-0070   |                              |
| Reviewer's Assignment Category:                 | Environmental  |                              |
| Review Permit Weblink:                          |  |                              |
| Review Due Date:                                | June 6, 2014   |                              |
| Responsible Person:                             | David Havens (509.438.6055)                              | (                            |
| Your prompt attention to this review Thank you. | request is appreciated.                                  |                              |
| Site Excavation Permit Administratio            | n  |                              |
| TEST Email: intended target = David             | E_Havens@rl.gov -  |                              |
| Ĺ   | <b></b>  |                              |

#### Figure 2- Automated Message

<u>Application Generated Notifications for Improved Responsiveness:</u> SEPA provides 100% twoway automatic transaction notifications. This feature is designed to alert users of an incoming assignment and corresponding responses thus improving process responsiveness. As an example when users initiate an action within SEPA, the application generates email notices alerting the assigned individual of a pending action (see Figure 2). The application generated email contains a weblink so the assignees can immediately access the specific permit assignment. Once the assignee responds, SEPA sends a corresponding email back to the individual initiating the action advising them that a response has been received. This two way email alert notifications feature is used throughout SEPA thereby greatly improving process efficiency.

Ability to Track Permit Reviewer Performance Automatically Saving Time and Effort: SEPA captures all excavation permit information and processes permit activities online. As permit requesters assign permit reviewers to their permit, SEPA posts the reviewer's assignment and their performance status next to their name (see Figure 3). Once Permit Reviewers are assigned, SEPA monitors the reviewer's response and automatically posts continued status updates until their permit is complete. SEPA also provides color background to indicate the reviewer's status (White background – good standing, Yellow background – due date within 2 days, Red background – permit review due date is overdue). At a glance, this feature makes permit tracking very efficient thereby saving time to monitor progress and avoids the drudgery of bird-dogging the reviewers until their actions are complete. During the manual permitting process, Permit Requesters would have to call upon each Permit Reviewer to get progress updates which took considerable time and effort over and over again.

| HANFORD SITE<br>EXCAVATION PERMIT<br>Permit Requests  |  |                                  | -0   |                        | 4            |
|---|--|----------------------------------|--|------------------------|--------------|
| DAVE HAVENS - PERMIT REQUESTER DASHBOARD  |  |                                  |  | 0                      | _            |
| Home Create New Permit Edit My Permits Displ  | ay My Permits  |                                  | DAN14-0086 Pe  | rmit E                 | ditor        |
| Permit Editor Assign Reviewers Submit for Review  | Review Status Cancel Pe                                    | ermit Save Permit                |  |                        |              |
| Permit Status: In Review  |  |                                  |  |                        |              |
| PERMIT NUMBER REVISION  | LAST P   | ERMITTED START DATE              | Document Attachments                                       | <b>i</b> (             | Add a        |
| DAN14-0086 0  |  |                                  | Excavation Permit DAN14-0088                               | (05/27/2014)           |              |
| 1. Work Package Number 2. W.O. Project Number   | 3. Location of Excavation                                  | •                                | Ground Scan  | Edit                   | Delete       |
| TFC-WO-14-3141 N/A  | 200 East 🔻 242-A   |                                  | (05/21/2014)<br>H-2-836513-001-00                          | Edit                   | Delete       |
| 4. Originated By / Primary Requester  | Phone Number   | Date                             | (05/21/2014)   | Con                    | Delete       |
| Shipman, Montee L   | 5093739089   | 05/21/2014                       | H-2-836513-002-00<br>(05/21/2014)                          | Edit                   | Delete       |
| Co-Requester / Secondary Requester  | Phone Number   | -                                | H-2-836513-003-00  | Edit                   | Delete       |
| 5. Change Notice (ECN, DCN, or FMP) Number  | 6. Drawings, Plans / Proc                                  |                                  | (05/21/2014)<br>H-2-836513-004-00                          | Edit                   | Delete       |
| H-2-838513 sht 1.2.3  | H-2-836513 sht 1-6 crossing                                |                                  | (05/21/2014)   | 2011                   | Denete       |
| 7. Description of Work  |  |                                  | H-2-838513-005-00<br>(05/21/2014)                          | Edit                   | Delete       |
| Modify pipe supports / pads 242-A steam line.Need t<br>and pads for the 242-A steam line all the way from   |  |                                  | H-2-836513-006-00<br>(05/21/2014)                          | Edit                   | Delete       |
| of 242-A. This work will require digging around exi<br>them and installing larger pads. This is to bring t  | sting supports and in some<br>them up to specs for earth q | cases removing<br>makes. In most | H-2-838513-007-00<br>(05/21/2014)                          |                        | Delete       |
| cases the pads are 1 foot deep, in at least one cas<br>Bollards shown on H-2-836513 sh 3 are 36" deep.      | e the pad is 30" deep on H-                                | 2-536513 sh 7. the               | Crossing List Part#1<br>(05/21/2014)                       | Edit                   | Delete       |
|   |  | -                                | Crossing List Part#2<br>(05/21/2014)                       | Edit                   | Delete       |
| 8. Special Instructions and Comments  |  |                                  | Added in Review: Bob Tucker                                |                        |              |
| Radiologcial Controls for this excavation include u<br>postings for excavation including spoils pile, and   |  |                                  | DAN14-0086 TELECOM<br>(05/22/2014)                         | Edit                   | Delete       |
| identified in items #1 and #2 on the crossing line<br>There are no LMSI managed telecommunication cables    |  | signed                           | Maps   |                        | A New<br>Map |
| map of the LMSI telecommunication cables near the e<br>Care shall be taken to avoid contact with undergroup | excavation for your p                                      | rmit                             | DAN14-0086 Dig Map A<br>(05/21/2014)                       | View                   | Delete       |
| MSA Water and Sever Utilities (WU) has no buried in<br>excavations. However, there are buried water lines   | frastructure at the  | viewer's                         | Reviews  |                        | Annight      |
| Should this activity require equipment to cross the   |  | atus 💦 🥂                         | 10. Design Authority/Technica                              | al Peprer              |              |
| 9. List Facilities, Services, Utilities, and Groundwate   | r Wells Affected by Excava                                 | ion                              |  | RREVIEW                |              |
|   |  | *                                | 11. Environmental  |                        |              |
|   |  | -                                | Ruth M Allen APPRo   | INENT                  | 05/27/2014   |
| 26. U-Dig Ticket Number   |  |                                  | 12. Radiological Control                                   |                        |              |
|   |  |                                  | Jeff Marks APPRO   | OVED W/                | 05/27/2014   |
| Permit Date Tracking  |  |                                  | 13. Steam System   |                        |              |
| ESTIMATED START ACTUAL START  | ESTIMATED END  | ACTUAL END                       | Joe Burrell APPP   | ROVED                  | 05/27/2014   |
| 08/04/2014  | 07/03/2014   |                                  | 14a. Electrical Utilities (Trans<br>Distribution)          |                        |              |
| Submitted by: MONTEE SHIPMAN  |  |                                  |  | RREVIEW                |              |
|   |  |                                  | 14b. Facility Electrical System     David Born     OUT FOR | ns (Second<br>R REVIEW |              |
| Review Comments   |  |                                  | 15. Water Utilities  |                        |              |
| Reviews: Ruth M Allen - Environmental<br>[05/22/2014] Care shall be taken to avoid<br>lines.                | d contact with undergro                                    | und waste transfer               |  | OVED W/                | 05/27/2014   |
| lines.<br>Reviews: Jeff Marks - Radiological Control  |  |                                  | 16. Telecommunications                                     |                        |              |
| [05/22/2014] Radiologcial Controls for th<br>HPT coverage, RBA postings for excavation                      |  |                                  | Bob Tucker APPR  | IVED W/                | 05/27/2014   |
| for digging over transfer lines identifie   |  |                                  | 17. Transfer Lines & Process<br>Jeff Huth Appr             |                        | 05/21/2014   |
| list.<br>Reviews: Gary Stevens - Water Utilities  |  |                                  | 40. Tasfia Engineera                                       |                        |              |

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Figure 3- SEPA Electronic Permit

<u>Auto-saving to Official Use Only (OUO) or non-OUO Integrated Document Management</u> <u>System (IDMS) Folders:</u> With innovative processing, SEPA creates the ability of recognizing whether an attached document contains OUO content. The application requests the individual attaching a document to declare whether the attachment contains OUO or not. The application uses the declaration to direct the permit folder to the appropriate share area automatically. This prevents sensitive information from being stored in non-protected archive areas thereby protecting sensitive information and complying with information security regulations.

<u>Establishing A Set-Alternate Reviewer:</u> SEPA establishes a Set-Alternate feature so when users are out of the office, a reviewer's alternate can act on the reviewer's behalf for uninterrupted reviewer support. The application automatically sends an email notification to the assigned alternate and re-routes permit review assignments to the alternate during the primary Permit Reviewer's time off. The application monitors the reviewer's calendar and returns permit

reviewer assignments back to the primary Permit Reviewer when their scheduled absence expires. This feature ensures continuous reviews without interruption, avoids missed communications, and reduces the potential of permit review backlogs. No other Site application has this capability.

<u>Transferable Technology to Other Business Units or Contractors</u>: SEPA lends itself as an effective automated tool for streamlining other business environments whether at Hanford or other government sites. SEPA contains a wide variety of automation features such as: streamlining assigning actions, tracking performance, generating action alerts, creating high quality electronic maps without specialty training, monitoring approvals, automatically transferring data to a centralized archive storage location.

<u>Significant Operational Cost Savings</u>: An independent consulting firm performed a cost savings assessment comparing the new SEPA automation versus the manual excavation process. Based on the consultant firm's evaluation, SEPA creates significant potential operational savings/avoidance when compared to the manual permitting process. The reduction of time, operational efficiencies gained, and the amount of excavation permits processed annually, SEPA creates the potential for sizeable savings approaching 50% or greater.

<u>Consistent Digital Mapping Data:</u> SEPA offers a number of process improvement features. One example of a process improvement feature is SEPA's Map Draw capability (see Figure 4). The Map Draw capability provides Permit Requesters with a standardized drawing tool to create excavation location footprint maps. The tool derives base map information from the Site's Geographic Information System (GIS) Database. The Map Draw functionality ensures a level of mapping consistency in digital format, quality and accuracy for improved review purposes. It also allows general users to produce high quality drawings without specialized training. In comparison, the manual excavation process only captured mapping print attachments and didn't

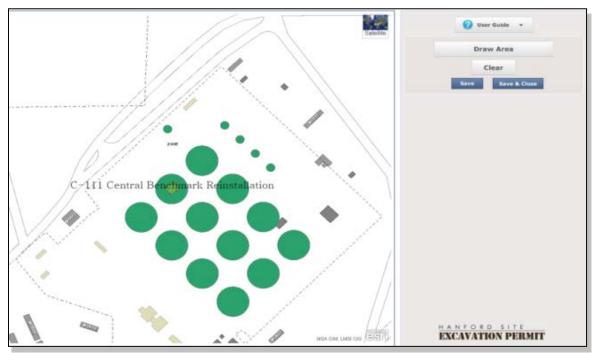


Figure 4 - SEPA Map Drawing Tool

utilize a standardized drawing format so Permit Reviewer received a variety of mapping information to review.

<u>Reviewer Consistency Results in Higher Quality Product</u>: SEPA is designed to streamline process steps and reinforce procedural compliance. The application establishes the Environmental Review Category as one of two mandatory reviews. The mandatory reviews are identified on SEPA's Assign Reviewer Webpage with a large green check mark next to the review category (see Figure 5 ). The application will not allow Permit Requesters to complete the excavation permit without the Environmental Review approval. The Environmental group's participation is guaranteed thus ensuring involvement of environmental processes and procedural compliance.

| HANFORD SITE<br>EXCAVATION PERMIT<br>Permit Requests<br>DAVE HAVENS - PERMIT REQUESTER DASHBOARD                 |  |  |
|--|--|--|
| Home Create New Permit Edit My Permits Displa  | y My Permits   | DAN14-0070 Permit Editor                 |
| Permit Editor Assign Reviewers Submit for Review   | Cancel Permit Save Permit                            |  |
| Permit Status: Draft   |  |  |
| Permit Review Categories   | Selected Review Categories and Reviewe               | ers                                      |
| Please select the reviews required for this permit. By<br>unchecking a review category you are signifying that a | 10. Design Authority/Technical Representative        |  |
| review is not applicable to this permit. You will be<br>prompted to verify your response.                        | √ 11. Environmental                                  | Assign Environmental                     |
| Note: By determining a "not applicable" response for   | 12. Radiological Control                             |  |
| a specific review block, you are accepting<br>responsibility for not obtaining a review by the                   | 13. Steam System                                     |  |
| designated reviewer.   | 14a. Electrical Utilities (Transmission Distribution | )  |
| I0. Design Authority/Technical Representative  | 14b. Facility Electrical Systems (Secondary)         |  |
| ✓ 11. Environmental  | 15. Water Utilities                                  |  |
| ✓ 12. Radiological Control   | 16. Telecommunications                               |  |
| ✓ 13. Steam System   | 17. Transfer Lines & Process Sewer                   |  |
| 14a. Electrical Utilities (Transmission Distribution)  | 18. Traffic Engineer                                 |  |
| ✓ 14b. Facility Electrical Systems (Secondary)   | 19. Road and Track Maintenance                       |  |
| ☑ 15. Water Utilities  | 20. Safeguards and Security                          |  |
| ✓ 16. Telecommunications   | 21. Land Use Planning/600 Area Landlord              |  |
| ✓ To: Transfer Lines & Process Sewer   | 22. Sanitary Sewer                                   |  |
|  | 23. Facility/System Owner(s) (Ad-Hoc Only)           |  |
| 18. Traffic Engineer   | 24. Other (Ad-Hoc Only)                              |  |
| III. Road and Track Maintenance  | ✓ 25. Responsible Manager (Ad-Hoc Only)              | Assign Responsible Manager (Ad-Hoc Only) |
| 20. Safeguards and Security  |  |  |
| 21. Land Use Planning/600 Area Landlord  |  |  |
| 22. Sanitary Sewer   |  |  |
| 23. Facility/System Owner(s) (Ad-Hoc Only)   |  |  |
| ☑ 24. Other (Ad-Hoc Only)  |  |  |
| ✓ 25. Responsible Manager (Ad-Hoc Only)  |  |  |

Figure 5 - SEPA Assign Reviewer Webpage

#### Information Sharing Improves Permit Reviewer's Comprehensiveness:

All excavation permits are routed to the designated reviewers for each company. The application continually monitors review's progress and provides "real-time" viewing status of all permit activities. This feature allows Permit Reviewers to easily observe other Permit Reviewer's comments throughout the permitting process (see Figure 6). The application promotes interactive coordination between all Permit Reviewers resulting in a more comprehensive review and a better permit product.

| Permit Requests<br>DAVE HAVENS - PERMIT REQUESTER DASHBOARD  |  |  | (   | -           | M  | 5   | A   |
|--|--|--|---|-------------|--|---|---|
|  | isplay My Permits  | 3  |   |             | DAN14-0089 Perr  | nit E   | dito  |
| Permit Editor Assign Reviewers Submit for Revi   |  |  | Permit Save Permit  |             |  |   |   |
| Permit Status: In Review   |  |  |   |             |  |   |   |
| PERMIT NUMBER REVISION   |  | LAST   | PERMITTED START DA  | TE          | Document Attachments   |   | ()Ad  |
| DAN14-0089 0   |  |  |   |             | Excavation Permit DAN14-0089 (0)   |   | Guess   |
| 1. Work Package Number 2. W.O. Project Numbe   | r 3. Locatio   | n of Excavatio   | n   |             | DAN14-0089   |   | "<br>Dele   |
| LMSI-14245P1 Project 14245P1   | 200 West   | <ul> <li>SY-Tank Fa</li> </ul>   | irms/Bidg. 252-S  |             | (05/28/2014)   | Cuit  | Den   |
| 4. Originated By / Primary Requester   | Pho  | ne Number  | Date  |             | Added in Review: Michael Borch   |   |   |
| Schatz, Jeff   | 5090   | 3721295  | 05/28/2014  |             | EU attachments<br>(05/30/2014)   | Edit  | Dek   |
| Co-Requester / Secondary Requester   | Pho  | ne Number  |   |             | Added in Review: Bob Tucker  |   |   |
| Joe Kadinger   | 5090   | 3723432  | _   |             | DAN14-0089_TELECOM   | Edit  | Dek   |
| 5. Change Notice (ECN, DCN, or FMP) Number   | 6. Drawin  | gs, Plans / Pro  | cedures   |             | (05/29/2014)   |   | ~~  |
|  | See sketch   | h and aerial photo   | attachments   |             | Maps   |   | 2   |
| 7. Description of Work   | L  |  |   |             | DAN14-0089 Dig Map A<br>(05/28/2014)   | View  | Dele  |
| Finish Fiber Installation to MO655   |  |  |   | *           | Reviews  |   | Aug   |
|  |  |  |   |             | 10. Design Authority/Technical F   | Repres  | 200.0   |
|  |  |  |   |             | Doug L Waterbury OUT FOR RE  | EVIEW   | 06/07/  |
|  |  |  |   |             | 11. Environmental  |   |   |
|  |  |  |   |             |  |   |   |
|  |  |  |   |             | Daniel C Herrera APPROV  | 'ED   | 05/29/  |
| Install 3" FVC conduit in trench from Southeast<br>approximately 20' to the east of Bldg. 252-8 to   | allow tie in of  | existing Tele  | com cabling coiled  | 11 × 4      | Daniel C Herrera         APPROV           12. Radiological Control         Grant Bachaud         OUT FOR RI           13. Steam System         Joe Burrell         APPROV  | EVIEW   | 06/07/  |
| at base of Telecom pole back to Telecom cabinet<br>of Bldg. 252-8.<br>Hand dig trench 20' long, by 20" wide, by 24" de   | allow tie in of<br>(to be installe<br>ep. The area th  | existing Tele<br>a) on southeas<br>te trench is re   | com cabling coiled<br>st exterior corner<br>equired to be dug,  | - III       | 12. Radiological Control<br>Grant Bachaud OUT FOR Ra<br>13. Steam System   | EVIEW<br>YED<br>SSION   | 05/28/2   |
| Install 3" FVC conduit in trench from Southeast<br>Insproximately 20' to the east of Bldg. 252-5 to<br>at base of Telecom pole back to Telecom cabinet<br>of Bldg. 252-5.<br>Wand dig trench 20' long, by 20" wide, by 24" de<br>is not currently marked as a "Radiological Contr<br>Utilities (WD) has buried water lines in the vic  | allow tie in of<br>(to be installe<br>ep. The area th<br>olled Area" at<br>inity of this e   | existing Tele<br>ad) on southeas<br>the trench is re<br>this time.MSA<br>excavation that   | com cabling coiled<br>at exterior corner<br>equired to be dug,<br>Water and Sever<br>a need to be   | - III - > 4 | 12. Radiological Control<br>Grant Bachaud OUT POR Ri<br>13. Steam System<br>Joe Burrell APPROV<br>14. Electrical Utilities (Transmi<br>Distribution)   | EVIEW<br>YED<br>SSION<br>YED  | 05/28/2   |
| Install 3" FVC conduit in trench from Southeast<br>approximately 20' to the east of Eldg. 252-5 to<br>at base of Telecom pole back to Telecom cabinet<br>of Eldg. 252-5.<br>Mand dig trench 20' long, by 20" wide, by 24" de<br>is not currently marked as a "Radiological Contr<br>Utilities (NU) has buried water lines in the vic<br>protected should this activity require equipment   | allow tie in of<br>(to be installe<br>ep. The area th<br>olled Area" at<br>inity of this e<br>to cross those   | existing Tele<br>(d) on southeas<br>the trench is re<br>this time.MSA<br>excavation that<br>buried lines   | com cabling coiled<br>to exterior corner<br>equired to be dug,<br>Water and Sewer<br>: need to be<br>off normally   | 4           | 12. Radiological Control       Grant Bachaud     OUT FOR RE       13. Steam System       Joe Burrell     APPROV       14a. Electrical Utilities (Transmi<br>Distribution)       Michael Borchers     APPROV  | EVIEW<br>YED<br>SSION<br>YED  | 05/28/2   |
| Install 3" FVC conduit in trench from Southeast<br>approximately 20' to the east of Bldg. 252-5 to<br>as base of Telecom pole back to Telecom cabinet<br>of Bldg. 252-5.<br>Hand dig trench 20' long, by 20" wide, by 24" de<br>is not currently marked as a "Radiological Contr<br>Upilities (MU) has burled water lines in the vic<br>protected should this activity require equipment<br>3. List Facilities, Services, Utilities, and Groundwu  | allow tie in of<br>(to be installe<br>ep. The area th<br>olled Area" at<br>inity of this e<br>to cross those   | existing Tele<br>(d) on southeas<br>the trench is re<br>this time.MSA<br>excavation that<br>buried lines   | com cabling coiled<br>to exterior corner<br>equired to be dug,<br>Water and Sewer<br>: need to be<br>off normally   | 4           | 12. Radiological Control       Grant Bachaud     OUT FOR RI       13. Steam System     Joe Burrell       APPROV     APPROV       14a. Electrical Utilities (Transmi<br>Distribution)     APPROV       Michael Borchers     APPROV       14b. Facility Electrical Systems (Control Systems)   | EVIEW<br>YED<br>SSION<br>YED  | 05/29/2<br>06/07/2<br>05/28/2<br>05/30/2<br>8/7y/)<br>06/07/2   |
| Install 3" FVC conduit in trench from Southeast<br>approximately 20' to the east of Eldg. 252-5 to<br>at base of Telecom pole back to Telecom cabinet<br>of Eldg. 252-5.<br>Mand dig trench 20' long, by 20" wide, by 24" de<br>is not currently marked as a "Radiological Contr<br>Utilities (NU) has buried water lines in the vic<br>protected should this activity require equipment   | allow tie in of<br>(to be installe<br>ep. The area th<br>olled Area" at<br>inity of this e<br>to cross those   | existing Tele<br>(d) on southeas<br>the trench is re<br>this time.MSA<br>excavation that<br>buried lines   | com cabling coiled<br>to exterior corner<br>equired to be dug,<br>Water and Sewer<br>: need to be<br>off normally   | 4           | Daline C Heneral       12. Radiological Control       Grant Bachaud     OUT FOR RI       13. Steam System       Joe Burrell     APPROV       14. Electrical Utilities (Transmi<br>Distribution)       Michael Borchers     APPROV       Michael Borchers     APPROVE       15. Water Utilities     Gary Stevens       16. Telecommunications     APPROVE   | EVIEW<br>YED<br>SSION<br>YED<br>Deconda   | 05/28/2<br>05/28/2<br>05/30/2<br>ary)<br>06/07/2  |
| Install 3" FVC conduit in trench from Southeast<br>approximately 20' to the east of Eldg. 252-5 to<br>at base of Telecom pole back to Telecom cabinet<br>of Eldg. 252-5.<br>Hand dig trench 20' long, by 20" wide, by 24" de<br>is not currently marked as a "Radiological Contr<br>Utilities (WU) has burled water lines in the vic<br>protected should this activity require equipment<br>B. List Facilities, Services, Utilities, and Groundwn<br>N/A   | allow tie in of<br>(to be installe<br>ep. The area th<br>olled Area" at<br>inity of this e<br>to cross those   | existing Tele<br>(d) on southeas<br>the trench is re<br>this time.MSA<br>excavation that<br>buried lines   | com cabling coiled<br>to exterior corner<br>equired to be dug,<br>Water and Sewer<br>: need to be<br>off normally   | 4           | 12. Radiological Control       Grant Bachaud     OUT FOR RE       13. Steam System     Joe Burrell       Joe Burrell     APPROV       14a. Electrical Utilities (Transmi<br>Distribution)     Michael Borchers       Michael Borchers     APPROV       14b. Facility Electrical Oystems (Consel       15. Water Utilities       Gary Stevens     APPROV  | EVIEW<br>YED<br>SSION<br>YED<br>Decond:   | 05/28/2<br>05/28/2<br>05/30/2<br>ary)<br>06/07/2  |
| Install 3" FVC conduit in trench from Southeast<br>approximately 20' to the east of Bldg. 252-5 to<br>as base of Telecom pole back to Telecom cabinet<br>of Bldg. 252-5.<br>Hand dig trench 20' long, by 20" wide, by 24" de<br>is not currently marked as a "Radiological Contr<br>Upilities (MU) has burled water lines in the vic<br>protected should this activity require equipment<br>3. List Facilities, Services, Utilities, and Groundwu  | allow tie in of<br>(to be installe<br>ep. The area th<br>olled Area" at<br>inity of this e<br>to cross those   | existing Tele<br>(d) on southeas<br>the trench is re<br>this time.MSA<br>excavation that<br>buried lines   | com cabling coiled<br>to exterior corner<br>equired to be dug,<br>Water and Sewer<br>: need to be<br>off normally   | 4 > 4       | Dalmer C Heneral       12. Radiological Control       Grant Bachaud     OUT FOR RI       13. Steam System       Joe Burrell     APPROV       14. Electrical Utilities (Transmi<br>Distribution)       Michael Borchers     APPROV       Michael Borchers     APPROVE       15. Water Utilities     Gary Stevens       16. Telecommunications     APPROVE   | EVIEW<br>rED<br>SSION<br>rED<br>Second<br>SCOW<br>NT<br>WW<br>WF<br>WF                          | 06/07/2<br>05/28/2<br>05/30/2<br>8/3/)<br>06/07/2<br>06/07/2  |
| Install 3" FVC conduit in trench from Southeast<br>approximately 20' to the east of Eldg. 252-5 to<br>at base of Telecom pole back to Telecom cabinet<br>of Eldg. 252-5.<br>Hand dig trench 20' long, by 20" wide, by 24" de<br>is not currently marked as a "Radiological Contr<br>Utilities (WU) has burled water lines in the vic<br>protected should this activity require equipment<br>B. List Facilities, Services, Utilities, and Groundwn<br>N/A   | allow tie in of<br>(to be installe<br>ep. The area th<br>olled Area" at<br>inity of this e<br>to cross those   | existing Tele<br>(d) on southeas<br>the trench is re<br>this time.MSA<br>excavation that<br>buried lines   | com cabling coiled<br>to exterior corner<br>equired to be dug,<br>Water and Sewer<br>: need to be<br>off normally   | 4           | 12. Radiological Control       Grant Bachaud     OUT FOR RI       13. Steam System     Joe Burrell       Joe Burrell     APPROV       14. Electrical Utilities (Transmi<br>Distribution)     APPROV       Michael Borohers     APPROV       15. Water Utilities     Gary Stevens       Gary Stevens     APPROVE       16. Telecommunications     Bob Tucker       17. Transfer Lines & Process Se       Jeff Huth     APPROVE  | EVIEW<br>rED<br>SSION<br>rED<br>Second<br>SCOW<br>NT<br>WW<br>WF<br>WF                          | 06/07/2<br>05/28/2<br>05/30/2<br>ary)   |
| Install 3" FVC conduit in trench from Southeast<br>approximately 20' to the east of Bldg. 252-3 to<br>at base of Telecom pole back to Telecom cabinet<br>of Bldg. 252-3.<br>Hand dig trench 20' long, by 20" wide, by 24" de<br>is not currently marked as a "Radiological Contr<br>Usilizies (NU) has buried water lines in the vic<br>protected should this activity require equipment<br>3. List Facilities, Services, Utilities, and Groundw<br>N/A<br>26. U-Dig Ticket Number   | allow tie in of<br>(to be installe<br>ep. The area th<br>olled Area" at<br>inity of this e<br>to cross those   | <pre>testing Tele d) on southess testine.MSA testine.MSA testine.MSA testine.MSA testine.testi</pre> | com cabling coiled<br>to exterior corner<br>equired to be dug,<br>Water and Sewer<br>: need to be<br>off normally   | 4 M 4       | Dame of Heneral       12. Radiological Control       Grant Bachaud     OUT FOR RI       13. Steam System       Joe Burrell     APPROV       14. Electrical Utilities (Transmi<br>Distribution)       Michael Borchers     APPROV       15. Water Utilities       Gary Stevens     APPROV       16. Telecommunications       Bob Tucker     APPROVE       17. Transfer Lines & Process See  | EVIEW<br>rED<br>SSION<br>rED<br>Second<br>SCOW<br>NT<br>WW<br>WF<br>WF                          | 06/07/2<br>05/28/2<br>05/30/2<br>8/7y)<br>06/07/2   |
| Install 3" FVC conduit in trench from Southeast<br>approximately 20' to the east of Bldg. 252-8 to<br>at base of Telecom pole back to Telecom cabinet<br>of Bldg. 252-8.<br>Hand dig trench 20' long, by 20" wide, by 24" de<br>is not currently marked as a "Radiological Contr<br>Usilities (NU) has buried water lines in the vic<br>protected should this activity require equipment<br>8. List Facilities, Services, Utilities, and Groundwn<br>N/A<br>26. U-Dig Ticket Number<br>Permit Date Tracking  | allow tie in of<br>(to be installe<br>ep. The area th<br>olled Area" at<br>inity of this e<br>to cross these<br>to cross these<br>ater Wells Affect  | <pre>t existing Tele d) on southess te trench is re this time.MSA recardion that buried lines the buried lines the by Excava DEMD</pre>  | com cabling coiled<br>et exterior corner<br>equired to be dug,<br>Water and Sewer<br>: meed to be<br>off normally<br>affion   | 4           | 21. Radiological Control     Grant Bachaud OUT FOR RI     Joe Burnel     Ja. Steam System     Joe Burnel     Joe Burnel     APPROV     14a. Electrical Utilities (Transmi Distribution)     Michael Borchers     APPROV     Hob. Tacility Electrical Systems (     Contel     Sary Stevens     APPROV     Gonzel     Contel     T. Transfer Lines & Process Se     Jeff Huth APPROV     Gonzel     Traffic Engineer     S. Road and Track-Maintenance     20. Safeguards and Security  | VED<br>SSION<br>VED<br>DWV<br>NT<br>SDWV<br>NT<br>SDWV<br>NT<br>SDWV<br>NT<br>SDWV<br>VED       | 06/07/2<br>05/28/2<br>05/30/2<br>06/07/2<br>06/07/2   |
| Install 3" FVC conduit in trench from Southeast<br>approximately 20' to the east of Bldg. 252-8 to<br>at base of Telecom pole back to Telecom cabinet<br>of Bldg. 252-8.<br>Hand dig trench 20' long, by 20" wide, by 24" de<br>is not currently marked as a "Radiological Contr<br>Usilizies (NU) has buried water lines in the vic<br>protected should this activity require equipment<br>8. List Facilities, Services, Utilities, and Groundw<br>N/A<br>26. U-Dig Ticket Number<br>Permit Date Tracking<br>ESTIMATED START ACTUAL START   | allow tie in of<br>(to be installe<br>ep. The area th<br>olled Area" at<br>to cross those<br>ater Wells Affect<br>ESTIMATE   | <pre>t existing Tele d) on southess te trench is re this time.MSA recardion that buried lines the buried lines the by Excava DEMD</pre>  | com cabling coiled<br>et exterior corner<br>equired to be dug,<br>Water and Sewer<br>: meed to be<br>off normally<br>affion   | 4 × ×       | 12. Radiological Control         Grant Bachaud       OUT FOR RI         13. Steam System         Joe Burrell       APPROV         14a. Electrical Utilities (Transmir<br>Distribution)       Michael Borchers         Michael Borchers       APPROV         Mich Facility Electrical Systems (Contell<br>Gary Stevens       APPROV<br>Contell         16. Telecommunications<br>Bob Tucker       APPROV<br>Contell         17. Transfer Lines & Process Se<br>Jeff Huth       APPROV         10. Traffic Engineer       Honore Maintenance         20. Safeguards and Security<br>Denise Barbour       APPROV  | VED<br>SSION<br>VED<br>DWV<br>NT<br>SDWV<br>NT<br>SDWV<br>NT<br>SDWV<br>NT<br>SDWV<br>VED       | 06/07/2<br>05/30/2<br>813/)<br>06/07/2<br>05/28/2   |
| Install 3" FVC conduit in trench from Southeast<br>approximately 20' to the east of Bldg. 252-5 to<br>at base of Telecom pole back to Telecom cabinet<br>of Bldg. 252-3.<br>Hand dig trench 20' long, by 20" wide, by 24" de<br>is not currently marked as a "Badiological Contr<br>Ubilities (WU) has buried water lines in the vic<br>protected should this activity require equipment<br>3. List Facilities, Services, Utilities, and Groundw<br>N/A<br>26. U-Dig Ticket Number<br>   | allow tie in of<br>(to be installe<br>ep. The area th<br>olled Area" at<br>to cross those<br>ater Wells Affect<br>ESTIMATE   | <pre>t existing Tele d) on southess te trench is re this time.MSA recardion that buried lines the buried lines the by Excava DEMD</pre>  | com cabling coiled<br>et exterior corner<br>equired to be dug,<br>Water and Sewer<br>: meed to be<br>off normally<br>affion   | 4 A         | 21. Radiological Control     Grant Bachaud OUT FOR RI     Joe Burrell APPROV     14a. Electrical Utilities (Transmi Distribution)     Michael Borchers APPROV     14b. Electrical Utilities     Gary Stevens APPROV     Gonnel     15. Water Utilities     Gary Stevens APPROVE     Gonnel     16. Telecommunications     Bob Tucker APPROVE     17. Transfer Lines & Process Se     Jeff Huth APPROV     10. Traffic Engineer     19. Rood and Track Maintenance     20. Safeguards and Security     Denise Barbour APPROV     21. Land Use Planning/600 Area Li  | VED<br>SSION<br>VED<br>DWV<br>NT<br>SDWV<br>NT<br>SDWV<br>NT<br>SDWV<br>NT<br>SDWV<br>VED       | 06/07/2<br>05/30/2<br>813/)<br>06/07/2<br>05/28/2   |
| Install 3" FVC conduit in trench from Southeast<br>approximately 20' to the east of Bldg. 252-5 to<br>as base of Telecom pole back to Telecom cabinet<br>of Bldg. 252-3.<br>Hand dig trench 20' long, by 20" wide, by 24" de<br>is not currently marked as a "Radiological Contr<br>Ubilities (WU) has buried water lines in the vic<br>protected should this activity require equipment<br>9. List Facilities, Services, Utilities, and Groundw<br>N/A<br>26. U-Dig Ticket Number<br><br>Permit Date Tracking<br>ESTIMATED START ACTUAL START<br>08/16/2014<br>Submitted by: JEFF SCHATZ<br>Review Comments   | allow tie in of<br>(to be installe<br>ep. The area th<br>olled Area" at<br>to cross those<br>ater Wells Affect<br>ESTIMATE   | <pre>t existing Tele d) on southess te trench is re this time.MSA recardion that buried lines the buried lines the by Excava DEMD</pre>  | com cabling coiled<br>et exterior corner<br>equired to be dug,<br>Water and Sewer<br>: meed to be<br>off normally<br>affion   | 4 H         | 12. Radiological Control         Grant Bachaud       OUT FOR RI         13. Steam System         Joe Burrell       APPROV         14a. Electrical Utilities (Transmir<br>Distribution)       Michael Borchers         Michael Borchers       APPROV         Mich Facility Electrical Systems (Contell<br>Gary Stevens       APPROV<br>Contell         16. Telecommunications<br>Bob Tucker       APPROV<br>Contell         17. Transfer Lines & Process Se<br>Jeff Huth       APPROV         10. Traffic Engineer       Honore Maintenance         20. Safeguards and Security<br>Denise Barbour       APPROV  | VED<br>VED<br>VED<br>VED<br>VED<br>VED<br>VED<br>VED  | 05/28/2<br>05/28/2<br>05/30/2<br>05/28/2<br>05/28/2   |
| Install 3" PVC conduit in trench from Southeast<br>approximately 20' to the east of Bldg. 252-5 to<br>ab base of Telecom pole back to Telecom cabinet<br>of Bldg. 252-5.<br>Hand dig trench 20' long, by 20" wide, by 24" de<br>is not currently marked as a "Radiological Contr<br>Unilities (WU) has burled water lines in the vic<br>Unilities (WU) has burled water lines in the vic<br>Dilities (WU) has burled water lines in the vic<br>BLST Activity require equipment<br>a. List Facilities, Services, Utilities, and Groundw<br>N/A<br>26. U-Dig Ticket Number<br>Permit Date Tracking<br>ESTIMATED START<br>OB/10/2014<br>Submitted by: JEFF SCHATZ<br>Review Comments<br>Reviews: Gary Stevens - Water Utilities<br>[05/29/2014] MSA Water and Sever Utilities | allow tie in of<br>(to be installe<br>ep. The area th<br>olled Area" at<br>inity of this<br>to cross those<br>ater Wells Affect<br>BESTIMATE<br>08/18/2014   | <pre>e existing Tele d) on southeas tele trench is re this time.MSA vacuution that buried lines tele by Excava D END 4 s buried wate</pre>   | com cabling coiled<br>it exterior corner<br>equired to be dug,<br>Water and Sever<br>off normally<br>ation<br>ACTUAL END  |             | 21. Radiological Control     Grant Bachaud OUT POR RI     12. Radiological Control     Grant Bachaud OUT POR RI     13. Steam System     Joe Burrel     14. Electrical Utilities (Transmi Distribution)     Michael Borchers APPROV     14. Electrical Utilities     Gary Stevens APPROV     15. Water Utilities     Gary Stevens APPROV     16. Telecommunications     Bob Tucker APPROV     10. Transfer Lines & Process Se     Jeff Huth APPROV     10. Traffic Engineer     10. Reaf-and Track Maintenance     20. Safeguards and Security     Denise Barbour APPROV     21. Land Use Planning400 Area La     22. Sanitary Sever     Gary M Stevens APPROV     23. Facility/System Owner(s) (Ad  | VED<br>VED<br>VED<br>VED<br>VED<br>VED<br>VED<br>VED  | 06/07/2<br>05/28/2<br>05/28/2<br>06/07/2<br>06/07/2<br>06/07/2<br>05/28/2<br>05/28/2<br>05/28/2<br>05/28/2<br>05/28/2 |
| Install 3" PVC conduit in trench from Southeast<br>approximately 20' to the east of Bldg. 252-5 to<br>at base of Telecom pole back to Telecom cabinet<br>of Bldg. 252-5.<br>Hand dig trench 20' long, by 20" wide, by 24" de<br>is not currently marked as a "Radiological Contr<br>Utilities (WU) has burled water lines in the vic<br>protected should this activity require equipment<br>0. List Facilities, Services, Utilities, and Groundwn<br>N/A<br>26. U-Dig Ticket Number<br>Permit Date Tracking<br>ESTIMATED START<br>00/18/2014<br>Submitted by: JEFF SCHATZ<br>Review Comments<br>Reviews: Gary Stevens - Water Utilities<br>[05/29/2014] MSA Water and Sewer Utility<br>vicinity of this excavation that need<br>equipment to cross those burled lines      | allow tie in of<br>(to be installe<br>ep. The area th<br>olled Area" at<br>inity of this<br>ater Wells Affect<br>ESTIMATE<br>08/18/2014<br>ties (WU) has<br>to be protectly  | e visiting Tele<br>(d) on southeas<br>the trench is re<br>this time.MSA<br>the trench is re<br>this time.MSA<br>buried lines<br>the buried lines<br>the buried by Excava<br>(D END<br>4<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()  | er lines in the calving required to be dug, Water and Sever , need to be off normally discontinues of the calving of the calvi      | se          | 21. Radiological Control Grant Bachaud OUT POR RI     12. Radiological Control Grant Bachaud OUT POR RI     13. Steam System Joe Burrell APPROV     14a. Electrical Utilities (Transmit Distribution) Michael Borchers APPROV     14b. Facility Electrical Oystems (C     15. Water Utilities     Gary Stevens APPROV     16. Telecommunications     Bob Tucker APPROV     10. Traffic Engineer     19. Read-and Track Maintenance     20. Safeguards and Security     Denise Barbour APPROV     21. Land Uso Planning/000 Area to     22. Sanitary Sever     Gary M Stevens APPROV     23. Facility/System Owner(s) (Ad     Rod Brown Our POR RI  | VED<br>VED<br>VED<br>VED<br>VED<br>VED<br>VED<br>VED  | 06/07/2<br>05/28/2<br>05/30/2<br>8737)<br>06/07/2<br>06/07/2<br>05/28/2<br>05/28/2<br>05/28/2<br>05/28/2<br>05/28/2   |
| Install 3" PVC conduit in trench from Southeast<br>approximately 20' to the east of Bldg. 252-5 to<br>as base of Telecom pole back to Telecom cabinet<br>of Bldg. 252-5.<br>Hand dig trench 20' long, by 20" wide, by 24" de<br>is not currently marked as a "Radiological Contr<br>Ubilities (WU) has burled water lines in the vic<br>protected should this activity require equipment<br>3. List Facilities, Services, Utilities, and Groundw<br>N/A<br>26. U-Dig Ticket Number<br>Permit Date Tracking<br>ESTIMATED START<br>08/18/2014<br>Submitted by: JEFF SCHATZ<br>Review Comments<br>Reviews: Gary Stevens - Water Utilities<br>[05/29/2014] MSA Water and Sever Utility<br>vicinity of this excavation that need  | allew tie in of<br>(to be installe<br>ep. The area the<br>olled Area" at<br>inity of this e<br>to cross those<br>ater Wells Affect<br>08/18/2014<br>ties (WU) has<br>to be protect<br>off normally<br>crossing. 2        | <pre>texisting Tele d) on southeas te trench is re this time.MSA texcavation that thurid lines ted by Excava ted by Excava ted by Excava ted should to traveled roo will traveled roo will ter aveled roo ter ter ter ter ter ter ter ter ter ter</pre>  | er lines in the<br>his activity required  | the         | 21. Radiological Control Grant Bachaud OUT POR RI     12. Radiological Control Grant Bachaud OUT POR RI     13. Steam System Joe Burrel     14. Electrical Utilities (Transmi Distribution) Michael Borchers APPROV     14. Electrical Utilities Gary Stevens APPROV     15. Water Utilities     Gary Stevens APPROV     16. Telecommunications     Bob Tucker APPROV     10. Transfer Lines & Process Se     Jeff Huth APPROV     10. Transfer Lines & Process Se     Jeff Huth APPROV     10. Traffic Engineer     10. Reafficient Stranger     20. Safeguards and Security     Denise Barbour APPROV     21. Land Use Planning 400 Area La     22. Sanitary Sever     Gary M Stevens APPROV     23. Facility/System Owner(s) (Ad     Rod Brown Out FoR Ri     24. Other (Ad-Hoc Only) | VED<br>VED<br>VED<br>VED<br>VED<br>VED<br>VED<br>VED<br>VED<br>VED                              | 06/07/2<br>05/28/2<br>06/30/2<br>06/07/2<br>06/07/2<br>05/28/2<br>05/28/2<br>05/28/2<br>05/28/2<br>05/28/2            |
| Install 3" FVC conduit in trench from Southeast<br>approximately 20' to the east of Bldg. 252-5 to<br>as base of Telecom pole back to Telecom cabinet<br>of Bldg. 252-5.<br>Hand dig trench 20' long, by 20" wide, by 24" de<br>is not currently marked as a "Radiological Contr<br>Utilities (WU) has buried water lines in the vic<br>protected should this activity require equipment<br>9. List Facilities, Services, Utilities, and Groundw<br>N/A<br>26. U-Dig Ticket Number<br>Bermit Date Tracking<br>Bermit Date Tracking<br>BSTIMATED START  | allow tie in of<br>(to be installe<br>ep. The area th<br>olled Area" at<br>inity of this<br>ater Wells Affect<br>ESTIMATE<br>08/18/2014<br>ties (WU) has<br>to be protect<br>off normally<br>crossings. 2<br>r side of t | e existing Tele<br>(d) on southeas<br>the trench is re<br>this time.MSA<br>(treated in the treated in the<br>treated in the treated in the<br>the treated is the treated in the<br>treated should the<br>traveled row<br>here or the traveled row<br>the proposed (  | er lines in the<br>his activity required to fill activity required<br>activity and Sever is a | the         | 21. Radiological Control     Grant Bachaud OUT POR RI     12. Radiological Control     Grant Bachaud OUT POR RI     13. Steam System     Joe Burnel     14. Electrical Utilities (Transmi Distribution)     Michael Borchers APPROV     14. Electrical Utilities     Gary Stevens APPROV     15. Water Utilities     Gary Stevens APPROV     16. Telecommunications     Bob Tucker APPROV     10. Traffic Engineer     19. Read-and Track Maintenance     20. Safeguards and Security     Denise Barbour APPROV     21. Land Uso Planning/000 Area to     22. Sanitary Sever     Gary M Stevens APPROV     23. Facility/System Owner(s) (Ad     Rod Brown Our POR RI   | VED<br>VED<br>SSION<br>VED<br>NOW<br>NT<br>VED<br>VED<br>VED<br>VED<br>VED<br>VED<br>VED<br>VED | 06/07/2<br>05/28/2<br>06/30/2<br>06/07/2<br>06/07/2<br>05/28/2<br>05/28/2<br>05/28/2<br>05/28/2<br>05/28/2            |

Figure 6 - SEPA Reviewer Comments

# CONCLUSIONS

In summary, Hanford contractors utilize the new SEPA interactive excavation permit toolset for processing excavation permits. SEPA replaces the 20-year-old manual permitting process and greatly improves excavation permit processing effectiveness. The SEPA system promotes environmental stewardship and sustainability goals, creates significant operational efficiencies and is Web-based so the application can be deployed without any special software. SEPA can be shared with all RL contractors, as well as other government sites. DOE-RL and DOE's Office of River Protection (ORP) also has given high endorsements of SEPA's innovation.

The SEPA architect will provide a live demonstration of the SEPA to the Waste Management Symposia and be available to answer questions from the audience.