

Appendix G
Field Change Requests



Alabama Department of Environmental Management
adem.alabama.gov

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August 31, 2009

Mr. Richard Satkin
Senior Project Manager
Matrix Environmental Services
283 Rucker Street
Building 3165
Anniston, AL 36205

RE: ADEM Review and Concurrence: Field Change Request #7 to *Revision 1 to Final Program Level Work Plan*
Fort McClellan, Calhoun County, Alabama
Facility I.D. No. AL4 210 020 562

Dear Mr. Satkin:

The Alabama Department of Environmental Management (ADEM or the Department) has completed its review of Field Change Request (FCR) #7. FCR #7 is a request to modify the target reacquisition procedures for removal of digital geophysical mapping (DGM) targets, raising the peak amplitude required to excavate an anomaly at reacquisition from 7mV to 10mV. The anomaly targeting criteria will remain the same. During reacquisition, the EM61-MK2 is located directly over the source that caused a target to be selected during mapping. The result is that the response during reacquisition is generally higher than during mapping. Evidence from both the geophysical prove-out (GPO) and data collected in the field indicate that the use of a 10mV threshold for reacquisition will continue to meet project data quality objectives (DQOs).

ADEM concurs with the request and the signed original document is attached for your records.

For any questions or concerns regarding this matter please contact Ms. Julie Ange of the Remediation Engineering Section at 334-270-5646 or via email at jange@adem.state.al.us.

Sincerely,

A handwritten signature in black ink that reads "Julie Ange".

Julie Ange
Governmental Hazardous Waste Branch
Land Division

cc: Mrs. Tracy P. Strickland/ADEM
Mr. Robin Scott/MDA
Mrs. Brandi Little/ADEM

Attachment



FCR #7

FIELD CHANGE REQUEST (FCR) FORM McClellan: Revision 1 to Final Program Level Work Plan

FCR #: 7

Date: 7/28/09

LOCATION: McClellan

Matrix Representative: Richard Satkin

1. Description (Items involved, submit sketch, if applicable): (Use continuation sheet if necessary)

Section 6.3.3.9 Anomaly Reacquisition: Modification of existing target reacquisition procedures to allow for removal of DGM targets in reacquisition where the reacquired peak amplitude of the anomaly associated with the target does not meet a minimum threshold established for reacquisition. The anomaly targeting criteria does not change. The minimum target reacquisition threshold will be 10 mV on the EM61-MK2 Channel 2.

2. Reason for Change (Use continuation sheet if necessary)

Section 2.4, Project Execution: the last paragraph states: "As alternative approaches/technologies are identified that will shorten the schedule or improve efficiency through site-specific experience, they will be employed where feasible to complete remaining work."

This supplemental reacquisition criteria (eliminating targets reacquired at <10 mV) meets the 95% DGM detection rate DQO of seeded test items in the GPO. Previous reacquisition tests in the GPO demonstrated that all seed items detected and targeted at 7mV were also reacquired at at least 10mV (see attached table of seed item mV comparisons for the original 2006 GPO reacquisition tests).

Because of the DGM sampling density of the EM61-MK2 utilized (10-cm along track spacing and 2.5-ft across track spacing), it is unlikely that a measurement point occurs exactly over the center of a munitions item where the greatest sensor response would (usually) be observed. This is why the peak amplitude of the anomaly, measured during the interrogation of the anomaly during target reacquisition, is usually greater than the targeted amplitude. The targeting criteria are conservatively designed to ensure that munitions items in unfavorable positions or orientations relative to the measurement locations are targeted. Because we interrogate each target location individually during reacquisition, we can ensure that we collect EM61-MK2 measurements directly over the source of each anomaly. Based on an assessment of over 185,000 DGM targets selected, reacquired, and dug to date, we have concluded that DGM targets (targeted at at least 7mV) which reacquire at less than 10mV represent non-MEC items to the standards of the GPO DQO. This change will allow for greater operational efficiencies in the field.

3. Recommended Disposition (Submit sketch, if applicable): (Use continuation sheet if necessary)

Revised Section 6.3.3.9 (Anomaly Reacquisition) to append the following text to the end of the first paragraph. "DGM targets whose peak amplitudes reacquire at less than the demonstrated reacquisition threshold established in the GPO may be excluded from further intrusive investigation during reacquisition. **The reacquisition threshold established in FCR#7 is 10mV on Channel 2.** Any target so excluded will be documented in the reacquisition documentation as 'reacquired at less than the reacquisition threshold.'"

Revised Section 10.7.4.2 (Intrusive Operations). Change "target" to "reacquired target" in defining QC failure criteria.

The reacquisition threshold will also be included in subsequent site-specific work plans.

Preparer of FCR (Print name and sign)	Preparer's Title	Date
Kent Boler <i>Kent Boler</i>	QA Geophysicist	7/28/09
UXOQCS - Reviewed (Print name and sign)	Accepted (Y/N) Yes	Date
Jason Soth <i>Jason Soth</i>	UXOQCS	7/28/09
Operations Manager- Reviewed (Print name and sign)	Accepted (Y/N) Yes	Date
Cecil Taylor <i>Cecil Taylor</i>	Site Operations Manager	7/28/09
Matrix PM - Reviewed (Print name and sign)	Accepted (Y/N) Yes	Date
Richard Satkin <i>Richard Satkin</i>	Project Manager	7/28/09
ADEM - Reviewed (Print name and sign)	Accepted (Y/N) <i>yes</i>	Date
Julie Ange <i>Julie Ange</i>		8/31/09

MRS	Unique Target ID	Seed Item ID	Seed Item Type	Reac Team ID	Reac Team Leader	Date of Reac	DGM Target Selection mV	Reac Pre-Dig Peak Reading mV	Reac Easting Offset ft	Reac Northing Offset ft	Reacquisition Comments
GPO	0627GPO2001	FTM_59	Mine AT M12A1	Geo_Reac_1	JEL	07-Aug-06	736.04	1000	1.5	5	Broad Peak.
GPO	0627GPO2002	FTM_52	81mm Mortar WP	Geo_Reac_1	JEL	07-Aug-06	262.92	301	1	-1	* Reconstructed from ECC data
GPO	0627GPO2003	-	-	Geo_Reac_2	RDB	15-Aug-06	149.34	184	0	1	No Comments.
GPO	0627GPO2004	FTM_53	81mm Mortar WP	Geo_Reac_1	JEL	07-Aug-06	125.12	152	1.5	0	No Comments.
GPO	0627GPO2005	FTM_65	4.2" Mortar Frag	Geo_Reac_2	RDB	15-Aug-06	97.83	170	0	0	No Comments.
GPO	0627GPO2006	FTM_46	81mm Mortar Light	Geo_Reac_2	RDB	15-Aug-06	96.48	120	-1	0	Broad Peak.
GPO	0627GPO2007	-	-	Geo_Reac_2	RDB	15-Aug-06	91.3	117	1	1	Same as Anomaly 60.
GPO	0627GPO2008	FTM_74	155 Shrapnel	Geo_Reac_2	RDB	15-Aug-06	91.02	112	1	0	No Comments.
GPO	0627GPO2009	FTM_69	90mm Shrapnel	Geo_Reac_2	RDB	15-Aug-06	77.33	96	-1.5	0	Broad Peak.
GPO	0627GPO2010	FTM_60	3.5" Rocket	Geo_Reac_1	JEL	07-Aug-06	73.69	72	-1.5	5	No Comments.
GPO	0627GPO2011	FTM_21	M33 Grenade	Geo_Reac_2	RDB	15-Aug-06	72.32	105	0	1	No Comments.
GPO	0627GPO2012	FTM_10	Rifle Grenade	Geo_Reac_1	JEL	07-Aug-06	65.53	81	1	-2	Same as Anomaly 27.
GPO	0627GPO2013	FTM_62	3.5" Rocket	Geo_Reac_1	JEL	07-Aug-06	59.35	49	5	1	Broad Peak.
GPO	0627GPO2014	FTM_43	M48 Trip Flare	Geo_Reac_2	RDB	15-Aug-06	58.51	182	1.5	-1.5	Same as Anomaly 18.
GPO	0627GPO2015	-	-	Geo_Reac_1	JEL	07-Aug-06	53.97	60	0	2	Control Point
GPO	0627GPO2016	FTM_16	37mm HE	Geo_Reac_2	RDB	15-Aug-06	52.8	75	0	0	No Comments.
GPO	0627GPO2017	FTM_34	2.36" Rocket	Geo_Reac_2	RDB	15-Aug-06	51.22	78	-1	-1.5	No Comments.
GPO	0627GPO2018	FTM_43	M48 Trip Flare	Geo_Reac_2	RDB	15-Aug-06	49.48	182	-5	-2.5	Same as Anomaly 14.
GPO	0627GPO2019	FTM_61	3.5" Rocket	Geo_Reac_2	RDB	15-Aug-06	46.64	88	0	0	No Comments.
GPO	0627GPO2020	FTM_36	60mm Mortar	Geo_Reac_1	JEL	07-Aug-06	46.42	46	5	-1.5	No Comments.
GPO	0627GPO2021	FTM_34	2.36" Rocket	Geo_Reac_2	RDB	15-Aug-06	45.46	70	0	-1.5	No Comments.
GPO	0627GPO2022	FTM_18	37mm HE	Geo_Reac_1	JEL	07-Aug-06	44.81	67	-1.5	0	No Comments.
GPO	0627GPO2023	FTM_38	60mm Mortar	Geo_Reac_1	JEL	07-Aug-06	44.64	62	-1	-1	Same as Anomaly 33.
GPO	0627GPO2024	FTM_27	Smoke Grenade	Geo_Reac_2	RDB	15-Aug-06	43.02	69	0	1	No Comments.
GPO	0627GPO2025	FTM_20	37mm HE	Geo_Reac_2	RDB	15-Aug-06	38.82	64	1	0	No Comments.
GPO	0627GPO2026	FTM_15	37mm HE	Geo_Reac_2	RDB	15-Aug-06	37.72	70	0	0	No Comments.
GPO	0627GPO2027	FTM_10	Rifle Grenade	Geo_Reac_1	JEL	07-Aug-06	37.40	81	-2	2.5	Same as Anomaly 12.
GPO	0627GPO2028	FTM_37	60mm Mortar	Geo_Reac_2	RDB	15-Aug-06	36.67	47	5	0	No Comments.
GPO	0627GPO2029	FTM_12	Rifle Grenade	Geo_Reac_1	JEL	07-Aug-06	36.44	31	-1	0	Broad Peak.
GPO	0627GPO2030	FTM_04	M67 Grenade	Geo_Reac_2	RDB	15-Aug-06	35.81	52	5	0	No Comments.
GPO	0627GPO2031	FTM_42	60mm Mortar	Geo_Reac_2	RDB	15-Aug-06	32.51	44	0	0	No Comments.
GPO	0627GPO2032	FTM_70	105 HE Frag	Geo_Reac_2	RDB	15-Aug-06	31.06	41	0	0	No Comments.
GPO	0627GPO2033	FTM_38	60mm Mortar	Geo_Reac_1	JEL	07-Aug-06	30.96	62	1.5	1	Same as Anomaly 23.
GPO	0627GPO2034	FTM_48	81mm Mortar Light	Geo_Reac_2	RDB	15-Aug-06	30.91	36	-5	0	No Comments.
GPO	0627GPO2035	FTM_14	37mm HE	Geo_Reac_2	RDB	15-Aug-06	30.54	35	5	-5	No Comments.
GPO	0627GPO2036	FTM_51	3" Stokes	Geo_Reac_1	JEL	07-Aug-06	30.28	42	0	-1	No Comments.
GPO	0627GPO2037	FTM_68	90mm Shrapnel	Geo_Reac_2	RDB	15-Aug-06	29.51	42	-5	0	Broad Peak.
GPO	0627GPO2038	FTM_06	M67 Grenade	Geo_Reac_1	JEL	07-Aug-06	27.50	31	0	1.5	No Comments.
GPO	0627GPO2039	FTM_56	81mm Mortar Teardrop	Geo_Reac_1	JEL	07-Aug-06	20.67	32	0	0	* Reconstructed from ECC data
GPO	0627GPO2040	FTM_11	Rifle Grenade	Geo_Reac_2	RDB	15-Aug-06	25.89	57	5	1	Same as Anomaly 41.
GPO	0627GPO2041	FTM_11	Rifle Grenade	Geo_Reac_2	RDB	15-Aug-06	24.19	57	-1	0	Same as Anomaly 40.
GPO	0627GPO2042	FTM_22	MK2 Grenade	Geo_Reac_2	RDB	15-Aug-06	24.19	26	0	-5	No Comments.

MRS	Unique Target ID	Seed Item ID	Seed Item Type	Reac Team ID	Reac Team Leader	Date of Reac	DGM Target Selection mV	Reac Pre-Dig Peak Reading mV	Reac Easting Offset ft	Reac Northing Offset ft	Reacquisition Comments
GPO	0627GPO2043	FTM_75	155 HE	Geo_Reac_1	JEL	07-Aug-06	23.99	31	1	-1	No Comments.
GPO	0627GPO2045	FTM_71	105 HEP	Geo_Reac_1	JEL	07-Aug-06	23.65	26	-5	-1	No Comments.
GPO	0627GPO2046	FTM_72	105 HEP	Geo_Reac_1	JEL	07-Aug-06	22.29	26	0	0	No Comments.
GPO	0627GPO2047	FTM_23	MK2 Grenade	Geo_Reac_2	RDB	15-Aug-06	21.53	36	0	0	No Comments.
GPO	0627GPO2048	FTM_39	60mm Mortar	Geo_Reac_2	RDB	15-Aug-06	21.06	60	0	0	No Comments.
GPO	0627GPO2049	FTM_17	37mm HE	Geo_Reac_1	JEL	07-Aug-06	20.76	26	-5	0	No Comments.
GPO	0627GPO2050	FTM_29	37mm APT	Geo_Reac_2	RDB	15-Aug-06	20.42	33	0	0	No Comments.
GPO	0627GPO2051	FTM_07	M67 Grenade	Geo_Reac_2	RDB	15-Aug-06	20.3	32	2	-1	No Comments.
GPO	0627GPO2052	FTM_01	40mm Practice	Geo_Reac_2	RDB	15-Aug-06	20.21	30	0	0	No Comments.
GPO	0627GPO2053	-	-	Geo_Reac_2	RDB	15-Aug-06	19.02				DO NOT DIG! (Survey Nail).
GPO	0627GPO2054	FTM_28	37mm APT	Geo_Reac_1	JEL	07-Aug-06	18.17	30	-5	-5	No Comments.
GPO	0627GPO2055	FTM_55	81mm Mortar WP	Geo_Reac_2	RDB	15-Aug-06	16.84	10	0	0	No Comments.
GPO	0627GPO2056	FTM_44	75mm Shrapnel	Geo_Reac_2	RDB	15-Aug-06	16.81	13	-5	.5	No Comments.
GPO	0627GPO2057	FTM_08	M67 Grenade	Geo_Reac_2	RDB	15-Aug-06	16.55	25	0	0	No Comments.
GPO	0627GPO2058	FTM_09	M67 Grenade	Geo_Reac_1	JEL	07-Aug-06	16.32	19	.5	-1	No Comments.
GPO	0627GPO2059	FTM_67	75mm Shrapnel	Geo_Reac_1	JEL	07-Aug-06	16.23	20	0	1	No Comments.
GPO	0627GPO2060	FTM_63	3" 50	Geo_Reac_2	RDB	15-Aug-06	16.22	110			Same as Anomaly 7.
GPO	0627GPO2061	FTM_49	81mm Mortar Light	Geo_Reac_1	JEL	07-Aug-06	15.92	16	-1.5	.5	No Comments.
GPO	0627GPO2062	FTM_33	37mm APT	Geo_Reac_1	JEL	07-Aug-06	15.74	25	-5	-1.5	No Comments.
GPO	0627GPO2063	FTM_05	M67 Grenade with fuze	Geo_Reac_2	RDB	15-Aug-06	15.72	40	-1.5	0	No Comments.
GPO	0627GPO2064	-	-	Geo_Reac_2	RDB	15-Aug-06	15.39	28	-1	-1.5	Same as Anomaly 68.
GPO	0627GPO2065	FTM_45	75mm Shrapnel	Geo_Reac_2	RDB	15-Aug-06	14.94	26	0	0	No Comments.
GPO	0627GPO2066	FTM_19	37mm HE	Geo_Reac_2	RDB	15-Aug-06	14.75	18		1	Same as Anomaly 88.
GPO	0627GPO2067	FTM_58	81mm Mortar Teardrop	Geo_Reac_1	JEL	07-Aug-06	14.52	52	-1	.5	No Comments.
GPO	0627GPO2068	FTM_54	81mm Mortar WP	Geo_Reac_2	RDB	15-Aug-06	14.01	28	1.5	1.5	Same as Anomaly 64.
GPO	0627GPO2069	FTM_25	MK2 Grenade	Geo_Reac_2	RDB	15-Aug-06	13.46	31	0	0	No Comments.
GPO	0627GPO2070	FTM_30	37mm APT	Geo_Reac_1	JEL	07-Aug-06	13.35	29	.5	0	No Comments.
GPO	0627GPO2071	-	-	Geo_Reac_2	RDB	15-Aug-06	13.16				DO NOT DIG! Terrain Induced Response.
GPO	0627GPO2072	FTM_02	40mm Practice	Geo_Reac_1	JEL	07-Aug-06	12.67	21	1	0	No Comments.
GPO	0627GPO2073	FTM_13	Rifle Grenade	Geo_Reac_2	RDB	15-Aug-06	12.38	32	-5	-1	No Comments.
GPO	0627GPO2074	-	-	Geo_Reac_2	RDB	15-Aug-06	11.98				DO NOT DIG! Terrain Induced Response.
GPO	0627GPO2075	FTM_03	40mm Practice	Geo_Reac_1	JEL	07-Aug-06	11.76	17	.5	-5	No Comments.
GPO	0627GPO2076	FTM_31	37mm APT	Geo_Reac_1	JEL	07-Aug-06	11.40	18	.5	-5	Same as Anomaly 77.
GPO	0627GPO2077	FTM_31	37mm APT	Geo_Reac_1	JEL	07-Aug-06	11.32	18	-5	1	Same as Anomaly 76.
GPO	0627GPO2078	FTM_40	60mm Mortar	Geo_Reac_1	JEL	07-Aug-06	11.31	18	0	-1.5	No Comments.
GPO	0627GPO2079	-	-	Geo_Reac_1	JEL	07-Aug-06	11.08	20	-2	0	Anomaly Sourced In Adjacent Grid.
GPO	0627GPO2080	FTM_26	M26 Grenade with fuze	Geo_Reac_1	JEL	07-Aug-06	11.02	16	1.5	.5	No Comments.
GPO	0627GPO2081	FTM_66	81mm Mortar Light	Geo_Reac_1	JEL	07-Aug-06	10.74	18	1	1	No Comments.
GPO	0627GPO2082	FTM_64	75mm Shrapnel	Geo_Reac_2	RDB	15-Aug-06	10.53	21	.5	-5	No Comments.
GPO	0627GPO2083	FTM_24	MK2 Grenade	Geo_Reac_1	JEL	07-Aug-06	9.72	18	-1	1	No Comments.
GPO	0627GPO2084	-	-	Geo_Reac_1	JEL	07-Aug-06	9.11	13	0	-1	Influence From Adjacent Anomaly 36.
GPO	0627GPO2085	-	-	Geo_Reac_1	JEL	07-Aug-06	9.03	18	0	0	No Comments.

All seed items which were detected were reacquitted at ≥ 10 mV. Using a reacquisition threshold of 10 mV (also) gives a detection rate of 73 or 75 seeds (97.3%).

ONIS "TREY" GLENN, III
DIRECTOR



Alabama Department of Environmental Management

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BOB RILEY
GOVERNOR

November 5, 2009

Mr. Richard Satkin
Senior Project Manager
Matrix Environmental Services
283 Rucker Street
Building 3165
Anniston, AL 36205

RE: ADEM Review and Concurrence: Field Change Requests #8 and #9 to *Revision 1 to Final Program Level Work Plan*
Fort McClellan, Calhoun County, Alabama
Facility I.D. No. AL4 210 020 562

Dear Mr. Satkin:

The Alabama Department of Environmental Management (ADEM or the Department) has completed its review of Field Change Requests (FCR) #8 and #9. FCR #8 is a request to use X-ray imaging to determine whether or not certain munitions and explosives of concern (MEC) are inert or explosively loaded. This will reduce the number of unneeded explosive operations. FCR#9 is a request to add the White's DFX 300 geophysical sensor to the list of sensors approved for surface, near surface, and 1-ft. MEC clearance. The equipment has been tested on the geophysical prove-out area (GPO) and it successfully detected all of the seeded items buried to a depth of 1-ft.

ADEM concurs with the requests and the signed original document is attached for your records.

For any questions or concerns regarding this matter please contact Ms. Julie Ange of the Remediation Engineering Section at 334-270-5646 or via email at jange@adem.state.al.us.

Sincerely,

A handwritten signature in black ink that reads "Julie Ange". The signature is written in a cursive style with a large, stylized "J" and "A".

Julie Ange
Governmental Hazardous Waste Branch
Land Division

cc: Mrs. Tracy P. Strickland/ADEM
Mr. Robin Scott/MDA
Mrs. Brandi Little/ADEM

Attachment

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(251) 432-6598 (Fax)

FCR #8

FIELD CHANGE REQUEST (FCR) FORM McClellan: Revision 1 to Final Program Level Work Plan

FCR #: 8	Date: 8/26/09	
LOCATION: McClellan	Matrix Representative: Richard Satkin	

1. Description (Items involved, submit sketch, if applicable): (Use continuation sheet if necessary)

Appendix E paragraph 7.5 Located MEC Procedures: Modification to existing procedures to allow for the use of a portable x-ray to assist with demolition operations in determining whether an item is live or practice.

2. Reason for Change (Use continuation sheet if necessary)

Section 2.4, Project Execution: the last paragraph states: "As alternative approaches/technologies are identified that will shorten the schedule or improve efficiency through site-specific experience, they will be employed where feasible to complete remaining work."

For some MPPEH, the 2.36-inch rocket in particular, it is difficult /impossible to determine the explosive hazard from the exterior characteristics of the items in the field. This results in numerous blow-in-place operations on non-explosively hazardous practice rounds. The utilization of the X-Ray will help identify munitions as live or practice. This will allow for a more efficient and cost effective manner in which demolition operations are conducted by allowing the Demo team to only spend time and materiel on live items. Down time for contractors will also be reduced by not having to move out of the area for would be demolition operations.

3. Recommended Disposition (Submit sketch, if applicable): (Use continuation sheet if necessary)

A new section will be added to the Programmatic Work Plan – Section 2.5.9 X-Ray Operations. MES may periodically subcontract or otherwise make available an X-Ray munitions inspection device with a qualified operator to field inspect 2.36-in rockets and other MPPEH which are difficult to positively identify from exterior characteristics. The X-Ray operator will be a qualified UXO technician who will be designated as essential personnel for the purposes of the inspection. If an X-Ray munitions inspection device with a qualified operator is available, a Team Leader may request X-Ray inspection of any MPPEH which cannot be positively identified. Standard operating procedures for X-Ray operations and for team procedures for items to be X-Rayed are described in SOP – X-Ray Operations (attached).

Three additional entries will be available in the "Anomaly Disposition Selection" menu in the PDA to the DEMO Supervisor. The new selections are: "X-Rayed Inert, "X-Rayed BIP" and "X-Rayed Consolidation". At the end of each day the X-Ray technician will remit his accountability paperwork to the Demo Supervisor. The Demo Supervisor will reconcile the Anomaly Disposition Status of each X-Rayed item in the Demo PDA to reflect its status post X-Ray. As the X-Ray technician determines an item to be inert, he will remove the nose cone from the item, or otherwise make it readily identifiable as inert, keep possession of it and bring all the inert items he/she X-Rayed for the day into the scrap processing area for turn in.

Preparer of FCR (Print name and sign) <i>Jason Soth</i>	Preparer's Title UXOQCS	Date – 9/29/09
UXOQCS - Reviewed (Print name and sign) <i>Jason Soth</i>	Accepted (Y/N) Yes UXOQCS	Date – 9/29/09
Operations Manager- Reviewed (Print name and sign) <i>Cecil Taylor</i>	Accepted (Y/N) Yes Site Operations Manager	Date - 10/5/09
Matrix PM - Reviewed (Print name and sign) <i>Richard Satkin</i>	Accepted (Y/N) Yes Project Manager	Date – 10/9/09
ADEM - Reviewed (Print name and sign) <i>Julie Anne</i>	Accepted (Y/N) Yes	Date 11/5/09

FCR #9

FIELD CHANGE REQUEST (FCR) FORM McClellan: Revision 1 to Final Program Level Work Plan

FCR #: 9 LOCATION: McClellan	Date: 9/21/09 Matrix Representative: Kent Boler	
<p>1. Description (Items involved, submit sketch, if applicable): (Use continuation sheet if necessary)</p> <p>The White's DFX 300 electromagnetic metal detector is approved for use as a handheld detector for clearance to one foot, aggressive surface/near surface clearance, and surface sweep operations.</p>		
<p>2. Reason for Change (Use continuation sheet if necessary)</p> <p>Section 2.4, Project Execution: the last paragraph states: "As alternative approaches/technologies are identified that will shorten the schedule or improve efficiency through site-specific experience, they will be employed where feasible to complete remaining work."</p> <p>The new White's DFX 300 electromagnetic metal detector was evaluated in the GPO during the week of 31 August 2009 where it was demonstrated detection and location at least 95% of all GPO items buried one foot or less. The DFX 300 was utilized using the McClellan UXO program settings previously developed for the Whites XLT with the hot rock rejection function enabled. The DFX 300 detected 36 of 36 GPO seed items buried one foot or less (and 16 of the 30 buried deeper than one foot) with 141 false positives.</p> <p>This change will allow for greater operational efficiencies in the field as the White's DFX 300 more reliable for items buried 0.5-1.0 feet than the Whites XLT (which has not been approved for one foot clearance) is lighter and easier to swing than the Vallon metal detector and is less sensitive to hot rock than the Schonstedt gradiometer.</p>		
<p>3. Recommended Disposition (Submit sketch, if applicable): (Use continuation sheet if necessary)</p> <p>The Whites DFX 300 is approved for use as a handheld detector for clearance to one foot, aggressive surface/near surface clearance, and surface sweep operations using the McClellan UXO program settings and the hot rock rejection function enabled.</p> <p>Updated list of approved handheld detectors based on GPO evaluation: <u>Surface Sweep</u>: Vallon VMH (large & small head), Schonstedt GA-92XT/52CX, Whites DFX 300/XLT <u>Aggressive Surface/Near Surface Clearance (6-in Sweep)</u>: Vallon VMH (large & small head), Schonstedt GA-92XT/52CX, Whites DFX 300/XLT <u>One Foot Clearance</u>: Vallon VMH (large & small head), Schonstedt GA-92XT/52CX, Whites DFX 300 <u>Clearance to Depth</u>: Vallon VMH (large & small head), Schonstedt GA-92XT/52CX</p> <p>No text changes are required for the Programmatic Work Plan, Revision 1 however, the list of approved handheld detectors will be included in subsequent site-specific work plans.</p>		
Preparer of FCR (Print name and sign) Kent Boler <i>Kent Boler</i>	Preparer's Title QA Geophysicist	Date 9/21/09
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Operations Manager- Reviewed (Print name and sign) Cecil Taylor <i>Cecil Taylor</i>	Accepted (Y/N) Yes Site Operations Manager	Date 9/22/09
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