



APPLICATION FOR GAS CLEARANCE

TD-4100P-10-F01
11/2012
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GSO

1. Clearance No. TRA-13-16		2. Revision No.	2a. Revision Date / Time	3. Orig Date Sent 9/10/13	
4. Gas Control Center GAS CONTROL		5. District/Division Tracy		6. Job No. 30943472	
7. Clearance Supervisor Redacted		8a. Office Tel No.	8b. Cell No. 209-603-4673	9a. System <input checked="" type="checkbox"/> New <input type="checkbox"/> Std	9b. Non-System <input type="checkbox"/> New <input type="checkbox"/> Std

REFERENCES	10a. Operating Maps with Change No. 384516 Chg 2 sheets 1 & 2	Exhibit A R-A63, Exhibit B Antioch Dreg
		0801098 Rev 0
	10b. Operating Diagrams with Change No. 384748 Chg 73	083691 Rev 13
	484757 Chg 60	385164 Chg 32

SCHEDULE	11a. Start Date 9/13/13	11b. Start Time 0600	11c. Completion Date 9/23/13	11d. Completion Time 2359	12. Facility Involved L-114
	13. Equipment or Location L-114 MP 12.70 - MP 16.57. Antioch & Brentwood Terminal		14. Service Interruptions (See Page IV, Special Instructions) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Total No. of Customers		
	15. Description L-114 R-134 Replace 3.8 mi. MP-12.70 to 16.57 [3 sections] Including MLV 13.07, Antioch terminal L-114				

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insulating joint and Brentwood terminal new Valve Auto MLV 16.58	
17. Progress Report at Key Communication Steps (*) or not to exceed <u>Once Daily</u> If left blank <u>2hrs</u> is default	18. Special Instructions <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If Yes, please go to Page V)</i> <i>All Valve Ops must be in the Sequence of Ops. Valve Ops are <u>not</u> to be included in the Special Instructions</i>

AUTHORIZATION OF CLEARANCE			
	NAME	CONTACT NO	TODAY'S DATE
PREPARED BY:	Redacted		9/10/13
FIELD SUPERVISOR:			9/10/13
APPROVED BY GAS CONTROL:			9/12/13

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NOTIFICATIONS REQUIRED (Check those completed by Gas Control)	AGENCY	CONTACT NUMBER	<input checked="" type="checkbox"/> <i>(all that apply)</i>	PERSON NOTIFIED	TIME NOTIFIED	NOTIFIED BY WHOM	COMMENTS
	GAS CONTROL (NORTH)	1-800-811-4111	<input type="checkbox"/>				
	GAS CONTROL (SOUTH)	1-800-547-5955	<input checked="" type="checkbox"/>			CS	
	FLYERS REQUIRED		<input type="checkbox"/>				
	CALL CENTERS (CTCC)	8-777-7278 916-923-7278	1- <input checked="" type="checkbox"/>			GSO	
	AERIAL PATROL DISPATCHER	(707) 449-5833 (707) 301-9936	<input checked="" type="checkbox"/>				
	AIRPORT		<input type="checkbox"/>				
	LAW ENFORCEMENT		<input type="checkbox"/>				
	FIRE DEPARTMENT	925-941-3330	<input checked="" type="checkbox"/>			GSO	
	AIR QUALITY BOARD	415-771-6000	<input checked="" type="checkbox"/>			GSO	
	PUBLIC RELATIONS	Redacted	<input type="checkbox"/>	Redacted		C/S	
	CUSTOMER IMPACT SPECIALIST					C/S	

DISTRIBUTION BY ORIGINATOR (Checked "✓" items are mandatory)	AGENCY	LAN ID	MANDATORY
	SYSTEM GAS CONTROL	GSO SF CLEARANCE	
	SYSTEM TRANSMISSION SUPERVISOR	Redacted	
	CLEARANCE SUPERVISOR	Redacted	
	GT M&C MAINTENANCE SUPERVISOR	Redacted	
	GT M&C SUPERINTENDENT	Redacted	
	GAS T & R SUPERVISORS	Redacted	
	AREA M&C SUPERINTENDENT		
	GE PIPELINE/FACILITY ENGINEER	Redacted	
	TRANSMISSION SYSTEM PLANNING	Redacted	
	DIVISION ENGINEERING	Redacted	
	PROJECT ENGINEER	Redacted	
	ENVIRONMENTAL ENGINEER		

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RELEASED GAS VOLUME REQUIREMENTS

A. Estimated Total Volume of Gas To Be Released During Clearance 750 mcf	B. Was a drafting strategy performed if Box A. is over 250MCF? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
C. If Box B is checked NO , please explain why.	

RELEASED GAS VOLUMES

D. Starting Pressure Drafting	E. Ending Pressure Drafting	F. Starting Pressure X-Comp	G. Ending Pressure X-Comp
H. Gas Volume Saved from Drafting	I. Gas Volume Saved from X-Comp	J. Gas Volume Blown to Atmosphere (MMCF Unit)	

PURPOSE FOR REVISION CHANGE(S)

Revision No.	Reason for Change				
Reported By	Date & Time	Reported To	Date & Time	Tel No.	Today's Date
Revision No.	Reason for Change				
Reported By	Date & Time	Reported By	Date & Time	Reported By	Date & Time
Revision No.	Reason for Change				
Reported By	Date & Time	Reported By	Date & Time	Reported By	Date & Time

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SPECIAL INSTRUCTIONS

Please list Special Instructions below

1.	<p>“Rio Vista production to stay online, Gas Control to route Rio Vista production to L191N and monitor. Gas Control will shut in production if required”</p>
2.	<p>L316 production will be shut in for clearance duration. Gas Control to notify producers 48 hrs. before clearance. CS to confirm L316 odorizers are shut off for duration of clearance then turned back on when clearance is completed.</p>
3.	<p>District Reg Stations RA-24 Lone Tree, RA -03 Dainty, RA-63 Brentwood Terminal fed from Line 114 will be shut in during this clearance. A distribution backfeed will be created to support these reg stations by the opening of the BTU valves mentioned in the sequence of operations. The following stations will create the distribution backfeed: RA-07 Balfour, RA-02 Brentwood Town, and RA-69 New Victory (by switching feed from Line 114 to Line 303).</p>
4.	<p>Cut & Cap locations: MP 16.51, MP 13.07 d/s of V-1 &V-2 and MP 12.51</p>
5.	<p>Draft Strategy: Before Draft: Gas Control to reduce L114 pressure as low as possible</p> <p><u>Fri. 9/13</u> Start Draft no later than 0800 hrs. after isolating between Ant. & Brentwood Terminals Draft will be into Diablo Div. DRs @ Antioch Term., Dainty, Lone Tree & Brentwood Terminal Gas Control to set Antioch Term. V-103/103R to 85/90# to maintain supply to L114 & between Brentwood & Antioch Terminals during draft.</p> <p>Draft to continue until Sun. 9/15 1000 hrs. or until line is needed for blow down</p> <p>After Draft: Diablo Div. T&R to: Switch Antioch Term. DR RA-69 to feed from L303 Open BTU valves on adjacent distributions systems as necessary to ensure adequate supply to distribution system Isolate L114 from DRs to prevent backfeed into L114</p>
6.	<p>VALVES: All valves in sequence of operations will be serviced prior to and during the clearance as needed</p>
7.	<p>Clearance Supervisor responsible to:</p> <ul style="list-style-type: none"> • Notify Customer impact specialist Redacted the day before start of clearance and again once completed, and if there are any unforeseen circumstances or delays.

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8.	BLOW DOWN: Will take place at Antioch Terminal 8" B/D V-T								
9.	LOTO Lockout/Tagout: We will be using Utility Bulletin: TS-4100B-003 to perform the additional requirements for the lockout/tagout procedure. The following valves will be locked as applicable								
10.	<table border="1" style="width: 100%;"> <thead> <tr> <th style="text-align: center;">Locked Valves</th> <th style="text-align: center;">Tagged Valves</th> <th style="text-align: center;">Manned Valves</th> </tr> </thead> <tbody> <tr> <td style="vertical-align: top;"> Antioch Terminal Sta [ATS]: MLV 9.03, K-96 T-12.53 V-1 Brentwood Reg Sta V-4, V-5 & V-13 T-14.52 V-1 Brentwood Terminal Sta:[BTS] V-K59, V-44, MLV 16.59 </td> <td></td> <td></td> </tr> </tbody> </table>	Locked Valves	Tagged Valves	Manned Valves	Antioch Terminal Sta [ATS]: MLV 9.03, K-96 T-12.53 V-1 Brentwood Reg Sta V-4, V-5 & V-13 T-14.52 V-1 Brentwood Terminal Sta:[BTS] V-K59, V-44, MLV 16.59				
Locked Valves	Tagged Valves	Manned Valves							
Antioch Terminal Sta [ATS]: MLV 9.03, K-96 T-12.53 V-1 Brentwood Reg Sta V-4, V-5 & V-13 T-14.52 V-1 Brentwood Terminal Sta:[BTS] V-K59, V-44, MLV 16.59									
11.	Tracy District to blow drip at Brentwood Terminal prior to starting clearance.								
All Valve Operations <u>must</u> be in the "Sequence of Operations" Valve Operations <u>are not</u> to be included in the "Special Instructions"									

* Indicate Key Communication steps with an asterisk (*) for communication and logging between Clearance Supv and Gas Cntrl Ctr

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<p>A. Will Normal Function of the Facility be Maintained? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If No, please explain: Diablo Div. to open BTU valves as needed to support Dist. system</p>	<p>B. Does Gas Control Centers Need to Change SCADA Alarms? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
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SCADA TAG	SCADA ALARM DESCRIPTION	NORMAL HI-HI SETTING	CLEARANCE HI-HI SETTING	NORMAL LO-LO SETTING	CLEARANCE LO-LO SETTING	NORMAL MOP SETTING	CLEARANCE MOP SETTING
AAN_PT0114S	Ant L114S Out Press	457	N/C	277	80 during draft, 0 after draft	N/C	N/C
ABH_PT001	Brnt-Deh D/S Press	456	N/C	277	80 during draft, 0 after draft	N/C	N/C
BRT_PT0114N	Brnt-Plt L114 N Of Brnt-PLT Press	455	N/C	247	80 during draft, 0 after draft	N/C	N/C

Maximum Welding Pressure <u>N/A</u>	Maximum Tapping Pressure <u>N/A</u>
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(Note: For Welding on Pressurized Pipelines Gauge Designation, Pressure Limits, Frequency of Observation and a Designated Field Employee or Crew to Observe are Required.)

GAUGE DESTINATION <i>(Provided by CS)</i>	LIMITS		FREQUENCY OF OBSERVATIONS	OBSERVED BY <i>(Assigned by CS/Job Supv)</i>
	Low	High		
Brentwood Term D/R	30#	60#	Morning peak	Diablo TR
Lone Tree D/R	43#	60#	Morning peak	Diablo TR
Dainty D/R	40#	60#	Morning peak	Diablo TR
Redacted	35#	60#	Morning peak	Diablo TR
	36#	60#	Morning peak	Diablo TR

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SEQUENCE OF OPERATIONS

* Indicate Key Communication steps with an asterisk (*) for communication and logging between Clearance Supv and Gas Cntrl Ctr

* OPRN NO.	LOC	OPERATION	VALVE NO.	TAGGED	REMARKS	COMPLETE D BY	TIME/ DATE
*	→				Request Preliminary Clearance <i>(per Clearance Procedure Manual)</i>		
*	→				Request Final Clearance <i>(Day of Job)</i>		
1.					Friday 09-13-13 Day 1		
2.					CS to confirm that production is shut-in and odorizers are shut off		
3.	Redacted	Check Open	K-47	Caution	BTU VALVE	DI T&R	
4.		Check Open	M-05	Caution	BTU VALVE	DI T&R	
5.		Check Open	M-06	Caution	BTU VALVE	DI T&R	
6.		Check Open	M-07	Caution	BTU VALVE	DI T&R	
7.	BTS	Check Open	V-16.59	Caution			
*	8.	BTS	Close	V-85	Caution	Disable Controls. Open body cavity vent valve.	
9.	BTS	Close	V-60	Caution	Disable Controls		
10.	BTS	Check Closed	V-40	Caution			
11.	BTS	Close	V-44	MOL	Disable Controls. LOTO		
12.	BTS	Close	V-70	Caution	Disable Controls.		
13.	BTS	Check Close	V-30	Caution	Double block and bleed. Open gauge taps.		

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	14	BTS	Open	V-170	Caution			
	15	BTS	Check Open	K-58	Caution			
	16	BTS	Check Close	V-M	MOL	Remove blind flange.		
*	17	Brentwood Reg Sta	Close	V-27	Caution	Open body cavity vent valve Verify with GSO L-316 production has been shut in		
	18	Brentwood Reg Sta	Check Close	V-5	MOL	LOTO		
	19	Brentwood Reg Sta	Open	V-B	Caution	Double block and bleed.		
	20	Brentwood Reg Sta	Close	V-3	Caution			
	21	Brentwood Reg Sta	Close	V-4	MOL	LOTO		
	22	Brentwood Reg Sta	Open	V-11	Caution	Double block and bleed.		
	23	Brentwood Reg Sta	Check Close	V-13	MOL	Open body cavity vent valve LOTO		
	24	Brentwood Reg Sta	Check Close	V-19	Caution	Open body cavity vent valve		
	25	Brentwood Reg Sta	Close	V-18	Caution	Open body cavity vent valve.		
	26	Brentwood Reg Sta	Check Open	V-12	Caution			
	27	Brentwood Reg Sta	Open	V-D	Caution	Double block and bleed.		
	28	L-114 M.P 13.07	Check Open	MLV 13.07	Caution	Redacted Tag will be removed when valve set has been abandoned		
	29	L-114 M.P 13.07	Check Open	V-1	Caution	Redacted Tag will be removed when valve set has been abandoned		
	30	L-114 M.P 13.07	Check Open	V-2	Caution	Redacted Tag will be removed when valve set has been abandoned		
	31	ATS	Check Closed	V-5	MOL	LOTO		

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32					CS to have GSO close V-4 and lower D/S S.P. on V-103 and V-103R to 85/90# psig to support L-114 during drafting process		
33	ATS	Check Closed	V-4	MOL	Disable Controls open body cavity LOTO		
34	ATS	Check Close	V-111	MOL	LOTO		
35	ATS	Open	V-181	Caution	Pig Launcher		
36	ATS	Open	V-182	Caution	Pig Launcher		
37	ATS	Check Open	V-9.03	Caution			
38	ATS	Check Open	K-96	Caution	L-114 tap to RA-69	DI T&R	
39	ATS	Check Close	K-97	Caution	L-303 tap to RA-69	DI T&R	
40					Start Distribution Draft Fri 09-13-13 by 0800 hrs until Sun 09-15-13 1000 hrs. or until line needed for blow down		
41					AFTER THE DRAFT		
42	ATS	Open	K-97	Caution	L-303 tap to RA-69	DI T&R	
43	ATS	Close	K-96	R-Caution MOL	L-114 tap to RA-69 Open body cavity LOTO	DI T&R	
44	ATS	Open	Vent	Caution	Open K-96 body bleed	DI T&R	
45	ATS	OPEN	VENT	Caution	Open vent D/S K-96 between check valve V-M-01 AND K-96	DI T&R	
46	Redacted	Open	K-12	Caution	BTU VALVE	DI T&R	
47	Redacted	Open	K-13	Caution	BTU VALVE	DI T&R	
48	Redacted	Open	K-29	Caution	BTU VALVE	DI T&R	
49	Redacted	Open	K-38	Caution	BTU VALVE	DI T&R	

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50	Redacted	OPEN	K-42	CAUTION	OPEN BTU VALVE & TAG	DI T&R
51	Redacted	OPEN	A-12	CAUTION	OPEN BTU VALVE & TAG	DI T&R
52	Redacted	Check SET POINTS			CHECK SET POINT @ 40 PSIG	DI T&R
53	R-A24 LONE TREE DR	CLOSE	K-57	MOL	CLOSE INLET FIRE VALVE & TAG	DI T&R
54	R-A24 LONE TREE DR	CLOSE	K-56	MOL	CLOSE OUTLET FIRE VALVE & TAG	DI T&R
55	R-A24 LONE TREE DR	PURGE			OPEN METRIC VALVES AND BLOWDOWN STATION	DI T&R
56	R-A24 LONE TREE DR	CLOSE	V-1	Caution	CLOSE INLET STATION	DI T&R
57	R-A24 LONE TREE DR	CLOSE	V-9	Caution	CLOSE INLET STATION	DI T&R
58	R-A24 LONE TREE DR	CLOSE	V-8	Caution	CLOSE OUTLET STATION	DI T&R
59	R-A24 LONE TREE DR	CLOSE	V-16	Caution	CLOSE OUTLET STATION	DI T&R
60	R-A24 LONE TREE DR	OPEN			OPEN METRIC VALVES IN THE STATION	DI T&R
61	R-A03 DAINTY DR	CLOSE	K-50	MOL	CLOSE INLET FIRE VALVE & TAG	DI T&R
62	R-A03 DAINTY DR	CLOSE	K-49	MOL	CLOSE OUTLET FIRE VALVE & TAG	DI T&R
63	R-A03 DAINTY DR	CLOSE	K-55	MOL	CLOSE OUTLET FIRE VALVE & TAG	DI T&R
64	R-A03 DAINTY DR	PURGE			OPEN METRIC VALVES AND BLOWDOWN STATION	DI T&R

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65	R-A03 DAINTY DR	CLOSE	V-1	CAUTION	CLOSE INLET STATION	DI T&R	
66	R-A03 DAINTY DR	CLOSE	V-9	CAUTION	CLOSE INLET STATION	DI T&R	
67	R-A03 DAINTY DR	CLOSE	V-8	CAUTION	CLOSE OUTLET STATION	DI T&R	
68	R-A03 DAINTY DR	CLOSE	V-16	CAUTION	CLOSE OUTLET STATION	DI T&R	
69	R-A03 DAINTY DR	OPEN			OPEN METRIC VALVES IN THE STATION	DI T&R	
70	R-A03 DAINTY DR				OPEN LIDS AND REMOVE STRAINER FILTERS TO ASSIST IN FRESH AIR DRAFTING		
71	RA-63 BRNTWD TERMINAL DR	CLOSE	K-58	MOL	CLOSE INLET FIRE VALVE & TAG	DI T&R	
72	RA 63 BRNTWD TERMINAL DR	CLOSE	K-59	MOL	CLOSE OUTLET FIRE VALVE & TAG LOTO	DI T&R	
73	R-A63 BRNTWD TERMINAL DR	PURGE			OPEN METRIC VALVES AND BLOWDOWN STATION	DI T&R	
74	R-A63 BRNTWD TERMINAL DR	CLOSE	V-1	CAUTION	CLOSE INLET STATION	DI T&R	
75	R-A63 BRNTWD TERMINAL DR	CLOSE	V-3	CAUTION	CLOSE INLET STATION	DI T&R	
76	R-A63 BRNTWD TERMINAL DR	CLOSE	V-4	CAUTION	CLOSE OUTLET STATION	DI T&R	
77	R-A63 BRNTWD TERMINAL DR	CLOSE	V-2	CAUTION	CLOSE OUTLET STATION	DI T&R	

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	78	R-A63 BRNTWD TERMINAL DR	OPEN			OPEN METRIC VALVES IN THE STATION	DI T&R	
	79	R-A63 BRNTWD TERMINAL DR				OPEN LID AND REMOVE ELEMENTS OR DROP FILTERS TO ASSIST IN FRESH AIR DRAFTING	DI T&R	
	80					Sun., 9-15. after draft – ready for blow down:”		
*	81	ATS	Close	V- 9.01	MOL	Open body bleed Shutting section of L-114 LOTO		
	82	ATS	Check Close	V-T	MOL	Remove blind flange install blow down stack.		
	83	BTS	Check Close	V-256	MOL	Remove blind flange.		
*	84					C/S Notify gas control ready for blow down. Record pressure.		
	85	ATS	Open	V-T	R-MOL Caution	Blow down line until flat install and start air mover		
	86	ATS	Close	V-181	Caution			
	87	ATS	Close	V-182	Caution	Open body bleed		
	88	L-114 M.P. 12.53 Lone Tree tap	Close	V-1 Tap 12.53	MOL	V-1 Tap 12.53 First valve off L-114 LOTO		
	89	BTS	Close	V- 16.59	MOL	LOTO		
	90	BTS	Open	V-AZ	Caution	Double block and bleed.		
	91	BTS	Open	V-256	R-MOL Caution	Fresh air source		
	92	BTS	Open	V-M	R-MOL Caution	Fresh air source		
	93	Brentwood Reg Sta	Open	V-A	Caution	Fresh air source.		
	94	R-A63 BRNTWD TERMINAL DR	Open	K-58	R-MOL Caution	Verify Lids on filters open and filters removed. Fresh air source.		

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95.	R-A63 BRNTWD TERMINAL DR	OPEN	V-1	CAUTION	OPEN INLET STATION	DI T&R	
96.	R-A63 BRNTWD TERMINAL DR	OPEN	V-3	CAUTION	OPEN INLET STATION	DI T&R	
97.	R-A03 DAINTY DR	OPEN	K-50	R-MOL CAUTION	OPEN INLET FIRE VALVE & TAG		
98.	R-A03 DAINTY DR	OPEN	V-1	CAUTION	OPEN INLET STATION FRESH AIR SOURCE	DI T&R	
99.	R-A03 DAINTY DR	OPEN	V-9	CAUTION	OPEN INLET STATION FRESH AIR SOURCE	DI T&R	
100.						When 0% gas detected at air mover and sniff hole locations	
101.	Redacted						
101.		CLOSE	V-1 Tap 14.52	MOL		V-1 Tap 14.52 First valve off L-114 LOTO	
102.	R-A03 DAINTY DR	CLOSE	V-1	CAUTION		CLOSE VALVE INSTALL STRAINER FILTER AND LID	DI T&
103.	R-A03 DAINTY DR	CLOSE	V-9	CAUTION		CLOSE VALVE INSTALL STRAINER FILTER AND LID	DI T&
104.	R-A03 DAINTY DR	CLOSE	K-50	CAUTION		DOUBLE BLOCK AND BLEED	
105.	ATS	CLOSE	V-9.03	T/MOL		Close V 9.03 Open body cavity when 0% gas detected AT SNIFF HOLE D/S OF mlv 9.03	
106.						Install and start air mover on 2" d/s of MLV 9.03	
107.						C/S Reports ON	
108.						When 0% gas is confirmed: Secondary Clearance Holder verifies LOTO procedure & Report On to CS.	
109.						Turn over to G.C. Gas follow G.C. procedure.	
110.						When can is cut out at tie-in location Redacted	

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111.	BTS	Check Open	V-256	Caution	Install and start air mover.	
112.	BTS	Check Open	V-M	Caution	Install and start air mover.	
113.					When can is cut out at Brentwood terminal	
114.	Brentwood Reg Sta	Check Open	V-A	Caution	Install and start air mover.	
115.					When can is cut out at Antioch Terminal	
116.					Install and operate air mover at cap on Redacted	
117.					After welding of caps, X-Rays are complete. Confirm that all fittings are made up and prepare for purge.	
118.					Secondary Clearance Holder confirms that the work is ready for testing , Secondary Clearance Holder Report off to CS & proceeds with LOTO procedure	
119.					C/S REPORTS ON TEST	
120.	BTS	Close	V-M	Caution	Remove air mover install blind flange.	
121.	R-A63 BRNTWD TERMINAL DR	Close	K58	Caution		
122.	R-A63 BRNTWD TERMINAL DR	CLOSE	V1	Caution	CLOSE INLET STATION	DI T&
123.	R-A63 BRNTWD TERMINAL DR	CLOSE	V3	Caution	CLOSE INLET STATION	DI T&
124.					Install filters and install lids on filters.	
125.	BTS	Check Open	V-256	Caution	Remove air mover	
126.	BTS	Close	V-AZ	Caution		

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127.	BTS	Open	V-16.59	R-MOL Caution	To prepare for purge to end cap R/LOTO
128.	BTS	Check Open	Valve on cap	Caution	L-114 M.P. 16.51 Isolation cap.
129.					Notify GSO ready to purge to caps at Lone tree Brentwood Terminal and Redacted
130.	BTS	Slowly Open	V-40	Tagged Caution	Purge to Cap.
131.	BTS	Close	Valve on cap	Caution	L-114 M.P. 16.51 Isolation cap. When 100% gas detected at valve. Install blind flange.
132.	BTS	Close	V-256	Caution	When 100% gas detected. Install blind flange.
133.	BTS	Close	V-40	Tagged Caution	Close V-40 at 100 % gas
134.	BTS	Close	V-16.59	R-Caution MOL	LOTO
135.	BTS	Open	V-AZ	Caution	
136.	ATS	Close	V-T	Caution	Remove air mover install blind flange.
137.	ATS	Close	9.03	Caution	Body Bleed
138.	ATS	Close	D/S S-A-V		At MLV 9.03
139.	ATS	Open	9.03	R/Caution	
140.	L-114 M.P. 12.70	Check Open	Valve s on cap	Caution	Confirm valve on Isolation cap open with stack
141.	ATS	Slowly Open	V-9.01	R-MOL Caution	Purge L-114 from ATS to M.P. 12.70 thru valve on weld cap. R- LOTO
142.	L-114 M.P. 12.70	Close	Valve s on cap	Caution	When 100% gas detected at cap, close valve install blind flange
143.	ATS	Close	V-9.01	R-Caution MOL	Close V-9.01 at 100 % gas. L-114 to be left with 100% gas until final tie-in LOTO

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144.					Set up to Purge from Brentwood Reg Station to cap on Redacted street.
145.	Brentwood Reg Sta	Close	V-A	Caution	Remove air mover install plug in valve.
146.	L-114 M.P. 13.07	Check Open	Valves on cap	Caution	Open valves install stacks in valves.
147.	Brentwood Reg Sta	Close	V-12	Caution	
148.	Brentwood Reg Sta	Open	V-13	R-MOL Caution	Close body cavity R-LOTO
149.	Brentwood Reg Sta	Slowly Open	V-18	Caution	Close body cavity
150.	L-114 M.P. 13.07	Close	Valve on cap	Caution	Close valve remove stack when 100% gas detected. L-316 to be left with 100% gas until final tie in.
151.	Brentwood Reg Sta	Close	V-18	Caution	AT 100% gas Open body cavity
152.	Brentwood Reg Sta	Open	V-12	Caution	
153.	Brentwood Reg Sta	Close	V-13	R-Caution MOL	Open body cavity LOTO
154.					REPORTS OFF TEST End of 9-16-13
155.					After Pre tie in work has been completed 9-23-13
156.					C/S REPORTS ON TEST
157.					C/S Notify GSO ready to blow down piping at Antioch Terminal, Brentwood Terminal and Brentwood Reg Station
158.	BTS	Check Closed	V-16.59	Tagged MOL	LOTO
159.	BTS	Check Close	V-44	MOL	Disable Controls. LOTO
160.	BTS	Check Close	V-256	Caution	Remove blind flange.

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161.	BTS	Open	Valve on cap	Caution	MP 16.51 end cap line left with 100% gas blow line down flat.& fresh air	
162.	BTS	Open	V-256	Caution	Install and start air mover.	
163.					Confirm Brentwood Reg R-A63 is flat remove lid and filters for fresh air source	
164.	R-A63 BRNTWD TERMINAL DR	Open	V1	Caution	OPEN INLET STATION	DI T&
165.	R-A63 BRNTWD TERMINAL DR	Open	V3	Caution	OPEN INLET STATION	DI T&
166.	R-A63 BRNTWD TERMINAL DR	Open	K58	Caution	FRESH AIR SOURCE	DI T&
167.	Brentwood Reg Sta	Open	V-A	Caution	Remove plug install stack. Line left with 100% gas . Install and start air mover.	
168.	L-114 M.P. 13.07	Open	Valve on cap	Caution	Fresh air source.	
169.	ATS	Check Closed	V-T	Caution	Blow down header remove blind flange.	
170.	ATS	Open	V-T	Caution	Open valve install and start air mover. Line was left with 100% gas .	
171.	L-114 M.P. 12.70	Open	Valve s on cap	Caution	2" sav-a-valve for Fresh air source.	
172.					When 0% gas detected at all tie in locations.	
173.					C/S REPORTS OFF TEST	
174.					When 0% gas is confirmed: Secondary Clearance Holder verifies LOTO procedure & Reports On to CS.	
175.					Use G.C. tie in procedure	
176.					After welding and X-Rays are complete. Confirm that all fittings are made up and prepare for purge	

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177.					Secondary Clearance Holder confirms that the work is ready for testing, Secondary Clearance Holder Report off to CS & proceeds with LOTO procedure
178.					C/S REPORTS OFF
179.	L-114 M.P. 13.05	Check Open	New MLV 13.05	Caution	Check Open new MLV 13.05 Close body cavity
180.	L-114 M.P. 13.05	Check Open	New V-1	Caution	Check Open new V-1 Close body cavity
181.	L-114 M.P. 13.05	Check Open	New V-2	Caution	Check Open new V-2 Close body cavity
182.	L-114 M.P. 13.05	Check Open	New V-A	Caution	Check Open new V-A Close body cavity
183.	L-114 M.P. 13.05	Check Open	New V-B	Caution	Check Open new V-B Close body cavity
184.	L-114 M.P. 13.05	Check Open	New V-C	Caution	Check Open new V-C Close body cavity
185.	BTS	Check Open	New MLV 16.58	Caution	Check Open new MLV 16.58 Close body cavity
186.	BTS	Check Open	V-M	Caution	Check Open new V-M Close body cavity to prepare for purge
187.	Brentwood Reg Sta	Check Open	V-A	Caution	Remove air mover prepare for purge
188.	R-A63 BRNTWD TERMINAL DR	Close	K58	R-Caution MOL	Install filters and lids on filters.
189.	BTS	Open	V-M	Caution	Remove Air mover prepare for purge.
190.	BTS	Check Open	V-256	Caution	Remove Air mover prepare for purge.
191.	ATS	Close	V-T	R-Caution	Remove air mover install blind flange.
192.					Notify Gas Control ready for purge. Purge From ATS to BTS
193.	ATS	Check Close	V-182	R-caution	Close body bleed

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194.	ATS	Check Close	V-180	R-caution	Close body bleed	
195.	ATS	Check Open	V- 9.03	R-Caution		
196.	ATS				Confirm SP on I03& I03R set to 100 psig	
197.	ATS	Slowly Open	V- 9.01	R-MOL Caution	Slowly Open V-9.01 purge from ATS to BTS Close body bleed R- LOTO	
198.	Brentwood Reg Sta	Close	V-A	R-Caution	When 100% gas detected at V-A install plug.	
199.	BTS	Close	V-M	R-Caution	When 100% gas detected at V-M install blind flange.	
200.	BTS	Close	V-256	R-Caution	When 100% gas detected at V-256 install blind flange.	
201.	ATS	Close	V- 9.01	Caution	When Line reaches 100 psig	
202.					Soap test all welds and fitting.	
203.					Proceed with valve commissioning.	
204.	L-114 M.P. 13.05	Check Open	MLV 13.05	R-Caution	Close valve blow down body cavity then open MLV-13.05	
205.	L-114 M.P. 13.05	Check Open	V-1	R-Caution	Close valve blow down body cavity then open V-1	
206.	L-114 M.P. 13.05	Check Open	V-2	R-Caution	Close valve blow down body cavity then open V-2	
207.	L-114 M.P. 13.05	Close	V-A	R-Caution	Close valve blow down body cavity.	
208.	L-114 M.P. 13.05	Close	V-B	R-Caution	Close valve blow down body cavity.	
209.	L-114 M.P. 13.05	Close	V-C	R-Caution	Close valve blow down body cavity.	
210.	BTS	Check Open	MLV NEW 16.58	R-Caution	Close valve blow down body cavity then open MLV-16.58	
211.	BTS	Close	NEW V-M	R-Caution	Close valve blow down body cavity.	
212.	ATS	Open	V- 9.01	R-Caution		

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213.	ATS	Check Closed	V-5	R/MOL		
214.	ATS	Check Closed	V-4	R/MOL	Enable Controls close body cavity	
215.	ATS	Check Close	V-111	R/MOL		
216.					CS to have GSO to raise set point on V-103 & 103R and slowly pack to line pressure Then soap test all welds and fittings	
217.	ATS	Close	VENT	R-Caution	Close vent D/S K-96 between check valve V-M-01 AND K-96	
218.	ATS	Close	Vent	R-Caution	Close K-96 body bleed	
219.	ATS	Open	K-96	R-MOL	L-114 tap to RA-69 R-LOTO	
220.	ATS	Close	K-97	R-Caution	L-303 tap to RA-69	
221.	BTS	Slowly Open	V-16.59	R/MOL	R-LOTO	
222.	BTS	Close	V-AZ	R-Caution	When 100 % gas detected between V-16.59 and V-85	
223.	BTS	Enable	V-60	R-Caution	Confirm with GSO that V-60 has 0% set point prior to enabling	
224.	BTS	Check Closed	V-40	R-Caution		
225.	BTS	Enable	V-44	R-MOL	Confirm with GSO that V-44 has 0% set point prior to enabling LOTO	R-
226.	BTS	Enable	V-70	R-Caution	Confirm with GSO that V-70 has 0% set point prior to enabling	
227.	BTS	Check Closed	V-30	R-Caution		
228.	BTS	Close	V-170	R-Caution		

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229.	BTS	Slowly Open	V-85	R-Caution	Close body cavity vent valve. Monitor D/S pressure before opening Enable controls	
230.	Brentwood Reg Sta	Slowly Open	V-18	R-Caution	Close body cavity vent valve.	
231.	Brentwood Reg Sta	Close	V-D	R-Caution	When 100% gas detected Install blind flange	
232.	Brentwood Reg Sta	Check Closed	V-13	R-MOL	Close body cavity vent valve R-LOTO	
233.	Brentwood Reg Sta	Check Closed	V-19	R-Caution	Close body cavity vent valve	
234.	Brentwood Reg Sta	Check Open	V-12	R-Caution		
235.	Brentwood Reg Sta	Slowly Open	V-3	R/Caution	Purge reg set to 100% gas	
236.	Brentwood Reg Sta	Close	V-11	R-Caution	Install plug	
237.	Brentwood Reg Sta	Open	V-4	R-MOL	Verify reg set operational R-LOTO	
238.	Brentwood Reg Sta	Open	V-27	R-Caution		
239.	Brentwood Reg Sta	Slowly Open	V-5	R-MOL Caution	Purge to 100% gas- R/LOTO	
240.	Brentwood Reg Sta	CLOSE	V-5	R-Caution		
241.	Brentwood Reg Sta	CLOSE	V-B	R-Caution		
242.	R-A63 BRNTWD TERMINAL DR	INSTALL			RE-INSTALL FILTERS	DI T&
243.	R-A63 BRNTWD TERMINAL DR	OPEN	K-58	R-MOL	OPEN INLET FIRE VALVE, REMOVE TAG & PURGE INLET TO STATION	DI T&
244.	R-A63 BRNTWD TERMINAL DR	OPEN	K-59	RMOL	OPEN OUTLET FIRE VALVE, REMOVE TAG & PURGE STATION R-LOTO	DI T&
245.	R-A63 BRNTWD TERMINAL DR	CHECK OPEN	V-3	R CAUTION	OPEN INLET STATION VALVE	DI T&

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246.	R-A63 BRNTWD TERMINAL DR	CHECK OPEN	V-1	R CAUTION	OPEN INLET STATION VALVE	DI T&
247.	R-A63 BRNTWD TERMINAL DR	OPEN	V-4	R CAUTION	OPEN INLET STATION VALVE Monitor D/S pressure not to exceed MOP	DI T&
248.	R-A63 BRNTWD TERMINAL DR	OPEN	V-2	R CAUTION	OPEN OUTLET STATION VALVE Monitor D/S pressure not to exceed MOP	DI T&
249.	R-A63 BRNTWD TERMINAL DR	PURGE			PURGE STATION AND CHECK SET POINTS	DI T&
250.	Redacted	Slowly Open	V-1 Tap 14.52	R-MOL	V-1 Tap 14.52 First valve off L-114 R-LOTO	
251.	R-A03 DAINTY DR	OPEN	K-50	RMOL	OPEN INLET FIRE VALVE, REMOVE TAG & PURGE INLET TO STATION	DI T&
252.	R-A03 DAINTY DR	OPEN	K-55	RMOL	OPEN OUTLET FIRE VALVE, REMOVE TAG & PURGE OUTLET TO STATION	DI T&
253.	R-A03 DAINTY DR	OPEN	K-49	RMOL	OPEN OUTLET FIRE VALVE, REMOVE TAG & PURGE OUTLET TO STATION	DI T&
254.	R-A03 DAINTY DR	OPEN	V-1	R CAUTION	OPEN INLET STATION VALVE	DI T&
255.	R-A03 DAINTY DR	OPEN	V-9	R CAUTION	OPEN INLET STATION VALVE	DI T&
256.	R-A03 DAINTY DR	OPEN	V-8	R CAUTION	OPEN OUTLET STATION VALVE Monitor D/S pressure not to exceed MOP	DI T&
257.	R-A03 DAINTY DR	OPEN	V-16	R CAUTION	OPEN OUTLET STATION VALVE Monitor D/S pressure not to exceed MOP	DI T&
258.	R-A03 DAINTY DR	PURGE			PURGE STATION & CHECK SET POINTS	DI T&

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259.	Redacted	Check OPEN	K-47	R-Caution	VERIFY VALVE IS OPEN	DI T&
260.	L-114 M.P. 12.53 Lone Tree tap	Open	V-1 Tap 12.53	R-MOL	V-1 Tap 12.53 First valve off L-114 R-LOTO	
261.	R-A24 LONE TREE DR	Open	K-57	R-MOL	OPEN INLET FIRE VALVE	
262.	R-A24 LONE TREE DR	OPEN	K-56	R-MOL	OPEN OUTLET FIRE VALVE	
263.	R-A24 LONE TREE DR	PURGE			OPEN METRIC VALVES AND PURGE STATION	
264.	R-A24 LONE TREE DR	OPEN	V-1	R- CAUTION	OPEN INLET STATION	
265.	R-A24 LONE TREE DR	OPEN	V-9	R- CAUTION	OPEN INLET STATION	
266.	R-A24 LONE TREE DR	CLOSE			CLOSE METRIC VALVES IN THE STATION	
267.	R-A24 LONE TREE DR	OPEN	V-8	R- CAUTION	OPEN STATION OUTLET VALVE Monitor D/S pressure not to exceed MOP	
268.	R-A24 LONE TREE DR	OPEN	V-16	R- CAUTION	OPEN STATION OUTLET VALVE Monitor D/S pressure not to exceed MOP	
269.	Redacted	CLOSE	A-12	R CAUTION	CLOSE BTU VALVE AND REMOVE TAG	DI T&
270.	Redacted	CLOSE	K-42	R CAUTION	CLOSE BTU VALVE AND REMOVE TAG	DI T&
271.	Redacted	CLOSE	K-13	R CAUTION	CLOSE BTU VALVE AND REMOVE TAG	DI T&
272.	Redacted	CLOSE	K-12	R CAUTION	CLOSE BTU VALVE AND REMOVE TAG	DI T&
273.	Redacted	CLOSE	K-29	R- Caution	CLOSE BTU VALVE AND REMOVE TAG	DI T&

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274.	Redacted	CLOSE	K-38	R- Caution	CLOSE BTU VALVE AND REMOVE TAG	DI T&
275.		Verify SET POINTS			Verify SET POINTS FOR REGS AND MONITORS @ 40 psig	DI T&
276.		Check Open	M-05	R-Caution	BTU VALVE	DI T&
277.		Check Open	M-06	R-Caution	BTU VALVE	DI T&
278.		Check Open	M-07	R-Caution	BTU VALVE	DI T&
279.					Notify Gas Control to have production come back on and turn on odorizers	
280.					Job Complete	

*	NOTIFY GAS CONTROL CLEARANCE COMPLETE, EQUIPMENT IS RETURNED TO OPERATIONS
*	SEND VIA FAX OR EMAIL TO GSO SF CLEARANCE AND GSM MAPPING DEPTS REDLINED CHANGES OF OM&D'S

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