

### CERTIFIED TRANSFORMER TEST REPORT

3 Phase 60 Hertz Winding High Voltage

Coolant-Air

Sub/Phase Polarity Winding Low Voltage 1500.0 KVA Volts Wye 480

1500.0 KVA

12470 Volts Delta

TAPS: 13094 12782 12470 12158 11847

Resistance, losses, impedance, and regulation corrected to 135 degree C and are based on wattmeter measurements unless otherwise stated. The resistance for 3 phase transformers is the sum of the 3 phases in series.

	Test Date 10/21/2011	Resistance (Ohms) %Exc H.V. L.V. Amps 4.2779 .00172 .7686 Average   0.77 Guarantee	TOTAL 1	%Imp   %R 3   6.17   0.90 LOSS	%X   X/R   6.10   6.78
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PF 100% 90% 85% 80% 75% 3.597 4.088 4.474 4.789 1.084

Temperature rises based on data taken from test of similar design. Average rise in degree C.

	3		
Load	H.V.	L.V.	
100%	94.00		Guar
133%		83.00	115.00
7332	115.00	115.00	
			115.00

Applied Pot	ential Test:	Insulation	Test				***************************************
Winding H.V. L.V.	Rated   Volts   12470   480	Test Volts Applied 34.0 KV 3.0 KV	Duration of Test 60 Sec 60 Sec	frames manage ampaign	Induced Poter two times 480 400 hertz for	volts a	t.
Tap 13094 12782	Ratio Test I Phase A 47.249 46.177	Results Phase B 47.245 46.171	Phase C 47.255	Calc. 47.249	HV (Ohm)	Load Loss(W)	鲁艺
12470 12158 11847	45.031 43.957 42.743	45.026 43.955 42.742	46.177 45.036 43.964	46.123 44.997 43.871	4.2779	13493	6.17

11847	43.957 42.743	43.955 42.742	43.964 42.748		44.997 43.871 42.749		4.2779	13493	6.17
Phase Rela	ationship and Pol Angular Dis	placement (LV-HV)		3050		fficien	-y		
Remarks:	-30 Degrees	(DYN1 )	man analysis	125% 98.69	100% 98.87	75% 99.02	50% 99.09	25% 98.86	

### Remarks:

- 1) THERMAL DATA TAKEN FROM DS88490001.
- 2) GUARANTEED IMPEDANCE ON NOMINAL TAP IS 5.75% MINIMUM.

UNIT SUCCESSPULLY PASSED QC IMPULSE TEST

El Musul

I hereby certify that this is a true report based on factory tests made in accordance with the latest IEEE C57.12.01 & C57.12.91 test code and that each transformer withstood the insulation

10/24/2011 approved:

## ABB

### QUALITY ASSURANCE PROCEDURES Small Power Transformers Bland, VA

Number: QCT1A
Page: 1 of 1
Issue Date: 9/1/83
Revision No: 17
Revision Date: 07/02/02

Title: TEST REQUEST - Vent

S.O. #: 905	25,90529	Ref#:PAWE		
Type - kVA	old To: /	T. Alter	۲.(	). #: <sub></sub>
Vector Grou	- Rise: <u>AA -</u> ip(VDE): <u>DY1</u>	-		
			lies	Man Annie (1900)
Regulation:	LL: @10PF	GUARANTEED VAL TL: @0.9 PF HV / / IMUM	Sound:	_ AA FA
Reference T	hermal Data:	@0.9 PF @0.8 PF	@0.7 PF	
Impedance:	5.75 % IZ MIN	IMUM	LV/	
Other: REQ				
1 X	DONE C	~~~~	QAP Ref.	NOTES:
2		Turns Ratio     Heated & Vacuum	QAP 11.1	NOTES:
3 X		Megger <b>500</b> V		Milderman de construir de const
4 X	Y X	Resistance	QAP 11.6	and the contraction of the contr
		Tap Extremes on 1 unit(s)	QAP 11.3	-milane-parameter and a second
	1	Expected: HV <u>0.668528</u> LV <u>0.000</u>	819	± 10 %
5 <b>X</b>	x			I 10 %
6	X	aa. oloniacellielli	QAP 11.2	
7	X	Zero Sequence Imnedance	QAP 11.17	
8 X	X	illipedance and Load Losses	QAP 11.4	channes proprietal in the contract of the cont
		Expected LL (Hot) Min 12840 May	16907	Web Advantage and Control of the Con
9 X	X	. Ab rviteries off 1 fluit(e)	,	
		Core Loss & Excitation	QAP 11.5	
0 🗆		Expected NL: Min 2324 Max 3486 Corona Test before dielectrics		error children and company of the co
1 X 2 X		Impulse Test 100% QC	QAP 11.15	Annual State Annual State Stat
* *	X	Applied Potential	QAP 11.9	
í ĥ	X	Induced Potential	QAP 11.10 QAP 11.11	**Arm.WeetHashes
3 <b>X</b>	X	Corona Test after dielectrics	QAP 11.15	Avoidman_mandemic_appropriate
		Power Factor Switch & Soak	QAP 11.7	West and the second sec
X	x	Applied Potential - Controls	QAP 11.13	managed in the state of the sta
	X	Temperature Test	QAP 11.10	
		Audible Sound Level	QAP 11.8	2
		Primary Switch	QAP 11.12	abbit de l'immeration publiche abbit de la construcción
tes: 1. DOE	99 12%			Wilderman glanch
2. PROV	VIDE THERMA	L DATA FROM DS88490001 AND RE		
			CORD ON CTR.	
		43		
		94		
**IMPUL	SE TEST - CO	NNECT RESISTORS (PROSE		
**UNDE	R TEST [ IF WI	NNECT RESISTORS (PROPERLY SIZ NDING HAS NEUTRAL THEN SOLIDL	ZED) TO PHASES (	OF WINDINGS NOT
		TO THE SOLIDI	Y GROUND	

Engineer: PBW 8/27/11

Approval: HBC 8/29/11

Tested By 10/21/1)

ABB POW	ER T&D	COMPAN	IY, INC	<b>D.</b>			Data - 0/07/05
Quality Ass				Qct-02	>	Fo	Date: 8/27/2011
SO Range:						'A: 1500	orm Revision: 08 - 02/03/99
HV Phase HV Turns (	Voltage Max) ;	: 12470 661				LV Phas	ase Voltage : 277.13
FCAN (2					h. V	rums	: 14
			· · · · · · · · · · · · · · · · · · ·	·		***	(2) @ 2.5 %
					, [	Meas Coil#3	as.   Meas.   Calc'd     Avg.   Volts
A   13093.5	47.0109	47.483	31.24	91,24	51.	To The	
B   12781.7	45.8914	46.352	61.17	11,17	4	77	
C 12470					01,0	34	
D   12158.3	43.6531	44.0918	11,95	71,43	1.9	3	
E 11846.5	42.5336	42.9611	1, 44	外级	4 4	481	
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K	Additional and the state of the	484-964-964	Otherwish	descriptions	**	**************************************	
	Milano	Management of the Control of the Con	<sup>1</sup> destables <sub>00</sub> ,	***************************************	Yeldowyddigy	4944666	
Test Set Id N	V: AZ	13 L	on and an	DATE	6-6		
Ok'd For Assy	By:	1812		Principality		Date Date	te: 10-14-2011

Remarks:

90529001

# ABB

# QUALITY ASSURANCE PROCEDURES

Small Power Transformers Bland, VA Number: QCT 20A

Page: 1 of 1

Issue Date: 09/01/91

Revision No. 3

# TITLE: STANDARD TEST DATA SHEET (MAIN LAB)

Revision Date: 04/12/( SHOP ORDER NO. DS90529001 DESIGN: 90525 INSULATION RESISTANCE: TEST VOLTAGE: 500 (DC) HV: 10000 MΩ LV: 1000 MΩ CORE: 110/21/11 EQUIPMENT ID: 10452024 (DUE 10/21/11) WINDING RESISTANCE: HV WINDING - (NOM TAP), AMB: 19.8 °C RI-R2: 0,6539 R2-R3: 0,6543 R3-R1: 0,6546 HV WINDING - (MAX TAP), AMB: °C R1-R2: R2-R3: R3-R1: HV WINDING - (MIN TAP), AMB: °C R1-R2: R2-R3: R3-R1: LV WINDING #1 AMB: 19.3 °C RI-R2: 1000 7729 R2-R3: 1000 7973 R3-R1: 1000 8026 LV WINDING #2 AMB: °C RI-R2: R2-R3: BY: 01/21/11 EQUIPMENT ID: 10452028 (6/14/2012), 10452030 (6/15/2012), 10488749 (DUE 6/9/12), 10512284 (DUE 6/9/12), 10743614 (DUE 5/16/12), 10743616 (DUE 5/16/12) POLARITY & PHASE RELATION: H1-H3 (OR 1-2): DYN1 H3-X2: H3-X3: H2-X3: H2-X2: BY: DATE: 10/21/11 EQUIPMENT ID: 10452028 (6/14/2012) LOAD LOSS & IMPEDANCE: AMB #2 NOM TAP: WATTS MAX TAP: 10067 MIN TAP: AMB #1 = WINDING AMB BEFORE, AMB #2 = WINDING AMB AFTER DATE: 10/21/11 EQUIPMENT ID: 10452221 (DUE 10/28/11), 10743614 (DUE 5/16/12), 10743616 (DUE 5/16/12) NO-LOAD LOSS & EXCITATION CURRENT: %VOLTS: 100 V-AVG: 480 WATTS %VOLTS: V-AVG: 
 lex1:
 lex2:
 lex3:

 lex1:
 lex2:
 lex3:
 %VOLTS: V-AVG: BY: DATE: 10/21/11 EQUIPMENT ID: 10452221 (DUE 10/28/11) DIELECTRIC TESTS: IMPULSE: 60 HIPOT (UNIT): 34/3 INDUCED POTENTIAL: 960 HIPOT (CONT): BY: \_\_\_\_\_\_ DATE: \_\_\_\_\_\_ 10/21/11 EQUIPMENT ID: IMPULSE: 10452051 (DUE 2/17/12), 10513324 (DUE 2/17/12) HIPOT: 10903546 (DUE 6/29/12) INDUCED: 10452221 (DUE 10/28/11)

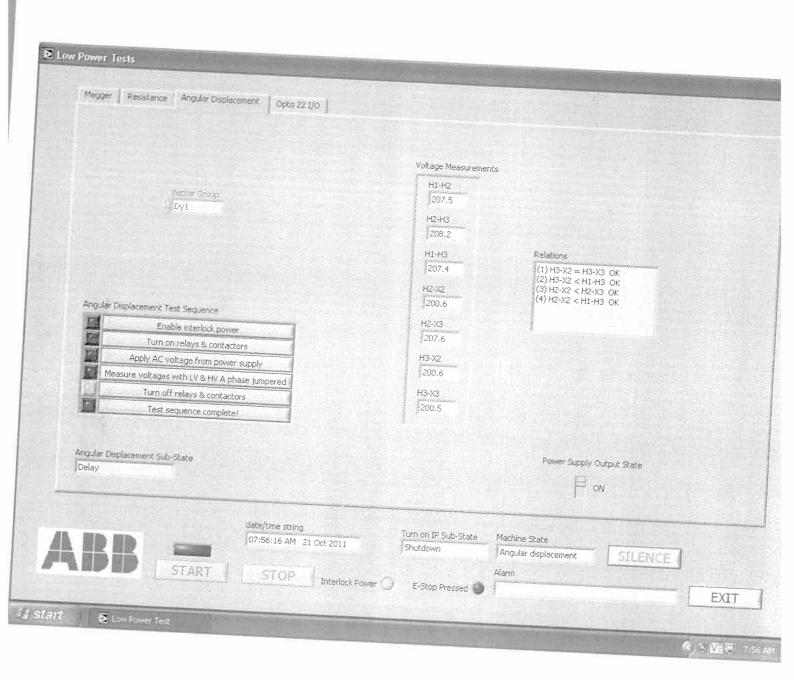
Dgn:         90525         Phase:         3         KVA:         1500.0         Test Date:         10/21/2011         Tr           Customer:         Square D Company         CoolCls:         EA33         DATE:         To 21/2011         Tr	43.957 <b>T5:</b> 42.743 <b>T6: 17.</b>	198 °C Tap: 3 • 1.2: 65390 2.3: 65430 C Tap: • 1.2: 65390 2.3: 65430 C Tap: • 1.2: 2.3: 7.3: 7.3: 7.3: 7.3: 7.3: 7.3: 7.3: 7	WATTS: WATTS:	.08S:		Audible Sound Level - AA:   0 % of Rated Voltage   Save Data   Calculate Values     Calculate Values	Special Tests: Comments:	UL Listing	Certified Test Report	Temn Tet Data from Dim Lir		3.597 4.088 4.474 4.789 Efficiency 0.00 75% 50% 25%
S.O.: DS90529001 Phase Relation: DYM	Tap Voltage Ratio: T1: 4	Winding Resistances HV Tap: @ HV Tap: @ HV Tap: @ Low Voltage @	L. Instrument: L. IIZ@ 199	operative publication and the control of the contro	Thermal Data Results:	KVA: 1500 2000 RSE: 115 115	HVTIL: 83 115	 	HVIL: 0.0 0.0	LV NIL: 0:0	000	1.00 pf 0.90 pf Regulation: 1.084 3.597

DS90529001 90525	LL 13493	NL 3447	% Z 6.17	Test Date 10/21/11
Test History Population - 7 Avg Min Tol.	13419	3422	6.18	10721731
Max Tol.	12077 14761	3080 3764	5.95 6.41	

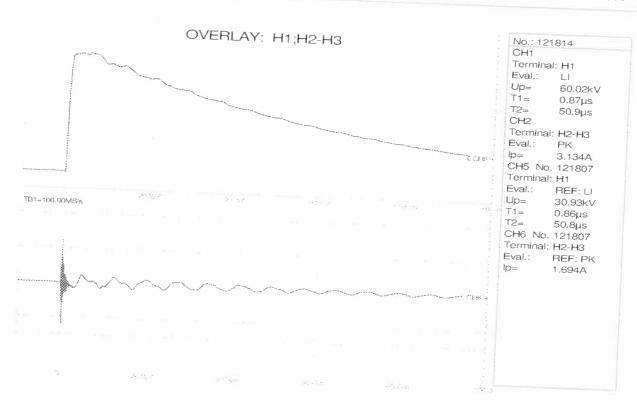
### INTERNAL TEST REPORT



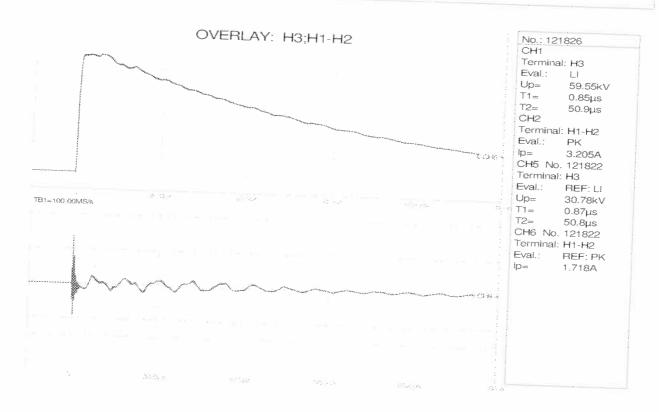
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		480		1804.2	.00077	-5.7 %	.00079	-3.3 %	.00080	-2.0 %	Q01:	.66866
	(See load lo	osses)					4.000.000.000.000.000.000.000.000.000.0	<u> </u>			1001.	.00082
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ses at	19.9 °C Res		8586	Lugy,	1481		NL:		3447		3486	MIN 5.7
	135 °C Res	istives:	1247	Eddy:	1020		LL:	1:	2400		16231	% Z
DOF L	OSSES & EFF	ICIENCY	1500/ 1 0 a	** * * * * * * * * * * * * * * * * * * *							10201	6.17
		1 00 1 mm 1 mm 2 mm 1	100% LUA	U AND 75C R	FF TEMPS							
			(50% LOA	U AND 75C R	EF. TEMP)			<u> </u>				
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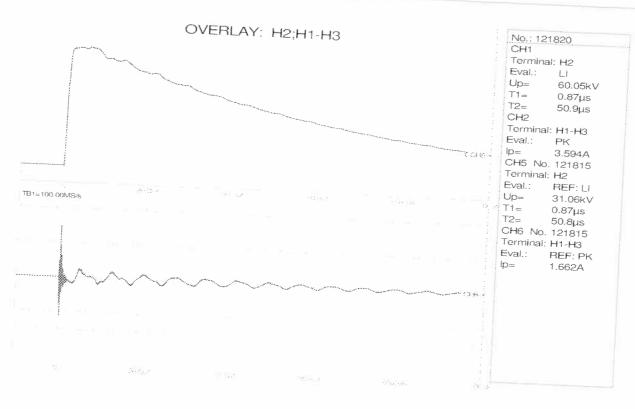
project (job): 90529001 date: 10/21/11



project (job): 90529001 date: 10/21/11



project (job): 90529001 date: 10/21/11



Rev. 0	Date: 08/27  CAN ( 2) 2.50  CBN ( 2) 2.50  T 10.250  J 9.009  W 36.750  Z 23.125  21 0.000  CWT 4055	7/2011 L HV Bu: ENCL C Therma	V Bus fl s (1) 0. 94 x l Data: Wdg Sus rminal Total	0.250 x 250 x 2.00 108 x 60 60 Hz 10 90.1 46.0 68.3 93.5 9	5.00 x 2 x 36 ETYP 4V 98.5 1.0	78	actor HV
Rev. 0	Date: 08/27  CAN ( 2) 2.50  CBN ( 2) 2.50  T 10.250  J 9.009  W 36.750  Z 23.125  21 0.000  CWT 4055	7/2011 L HV Bu: ENCL C Therma	V Bus fl s (1) 0. 94 x l Data: Wdg Sus rminal Total	0.250 x 250 x 2.00 108 x 60 60 Hz 10 90.1 46.0 68.3 93.5 9	5.00 x 2 x 36 ETYP 4V 98.5 1.0	78	actor HV 98.5 1.0 97.3
NAMEPLATE RATINGS:   K 1.00 ELEV 3300 FA 1.31 AMB 30.0     KVA 1500 MVV 12470 LVV 480 IZ 6.25 FC     RSE 115 HVC D LVC Y HZ 60 FC     CND C/C HVB 60 LVB 20 TYP VENT CN     DESIGN RATINGS:   RVA 150.00 LVE 20.00     Core:	T 10.250 J 9.009 W 36.750 Z 23.125 Z1 0.000 CWT 4055	HV Ru: ENCL	94 x  11 Data: Wdg Sus Susininal Total	250 x 2.00 108 x 60 60 Hz LV 1 90.1 46.0 88.3 92.5	5.00 x 2 x 36 ETYP 4V 98.5 1.0	78	actor HV 98.5 1.0 97.3
NAMEPLATE RATINGS:   K 1.00 ELEV 3300 FA 1.31 AMB 30.0     KVA 1500 MVV 12470 LVV 480 IZ 6.25 FC     RSE 115 HVC D LVC Y HZ 60 FC     CND C/C HVB 60 LVB 20 TYP VENT CN     DESIGN RATINGS:   RVA 150.00 LVE 20.00     Core:	T 10.250 J 9.009 W 36.750 Z 23.125 Z1 0.000 CWT 4055	HV Ru: ENCL	94 x  11 Data: Wdg Sus Susininal Total	250 x 2.00 108 x 60 60 Hz LV 1 90.1 46.0 88.3 92.5	5.00 x 2 x 36 ETYP 4V 98.5 1.0	78	actor HV 98.5 1.0 97.3
KVA 1560	T 10.250 J 9.009 W 16.750 Z 21.125 Z 10.000 CWT 4055	C Therma	Wdg Sus Funinal Total	60 Hz 50 Hz 60 Hz 60 Hz 60 Hz 90.1 46.0 68.3 92.5 9	ETYP HV 38.5	INDOOR  K-F. LV  90.1  46.0 88.3	actor HV 98.5 1.0 97.3
NVA 1560	T 10.250 J 9.009 W 16.750 Z 21.125 Z 10.000 CWT 4055	C Therma	Wdg Sus Funinal Total	60 Hz 50 Hz 60 Hz 60 Hz 60 Hz 90.1 46.0 68.3 92.5 9	ETYP HV 38.5	INDOOR  K-F. LV  90.1  46.0 88.3	actor HV 98.5 1.0 97.3
CND C/C HVB 60	CAN ( 2) 2.50  CAN ( 2) 2.50  Fig. ( 2) 2.50  T 10.250  J 9.009  W 36.750  Z 23.125  Z1 0.000  CWT 4055	C Therma	l Data: Wdg Sus rminal Total	60 Hz LV 1 90.1 9 46.0 88.3 9 93.5 9	HV 98.5	K-P LV 90,1 46.0 88.3	actor HV 98.5 1.0 97.3
DESIGN RATINGS:   KVA 1500.0   RVB 60.00   LVB 20.00	T 10.250 J 9.009 W 36.750 Z 23.125 Z1 0.000 CWT 4055	Te	Wdg Bus rminal Total	1V 90.1 9 46.0 88.3 9 93.5 9	HV 98.5	K-P LV 90.1 #6.0 88.3	actor HV 98.5 1.0 97.3
DESIGN RATINGS:   KVA 1500.0   RVB 60.00   LVB 20.00	T 10.250 J 9.009 W 36.750 Z 23.125 Z1 0.000 CWT 4055	Te	Wdg Bus rminal Total	1V 90.1 9 46.0 88.3 9 93.5 9	98.5 1.0	1.V 90.1 46.0 88.3	HV 98.5 1.0 97.3
Core: T1 9.000 J1 4.312 Wt1 2293  Grade M4 T2 8.000 J2 1.694 Wt2 804  Duct 0.000 T4 4.000 J3 2.002 Wt3 719  Legs 3 T5 0.000 J5 0.000 Wt5 0  Cycles 7 T7 0.000 J6 0.000 Wt6 0  Cycles 7 T7 0.000 J7 0.000 Wt7 0  Cycles 7 T7 0.000 J7 0.000 Wt6 0  Lams 1 T8 0.000 J8 0.000 Wt6 0  Tube: TSCL 0.125 TSID 10.500 TSLDN 1 TSD  TD 0.000 TSLDN 1 TSD  TD 0.000 WT 4 30.000 WT 6  WT 4 30.000 WT 6 30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	T 10.250 J 9.009 W 36.750 Z 23.125 21 0.000 CWT 4055	Te	Sus Fusinal Fotal	90.1 6 46.0 68.3 9 93.5 9	98.5 1.0	90.1 46.0 88.3	98.5 1.0 97.3
Core: T1 9.000 J1 4.312 Wt1 2293  Grade M4 T2 8.000 J2 1.694 Wt2 804  Duct 0.000 T4 4.000 J3 2.002 Wt3 719  Legs 3 T5 0.000 J5 0.000 Wt5 0  Cycles 7 T7 0.000 J6 0.000 Wt6 0  Cycles 7 T7 0.000 J7 0.000 Wt7 0  Cycles 7 T7 0.000 J7 0.000 Wt6 0  Lams 1 T8 0.000 J8 0.000 Wt6 0  Tube: TSCL 0.125 TSID 10.500 TSLDN 1 TSD  TD 0.000 TSLDN 1 TSD  TD 0.000 WT 4 30.000 WT 6  WT 4 30.000 WT 6 30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	T 10.250 J 9.009 W 36.750 Z 23.125 21 0.000 CWT 4055	Te	rminal Total	46.0 88.3 9 92.5 9	1.0	46.0 88.3	1.0
Core:	J 9.009 W 36.750 Z 23.125 Z1 0.000 CWT 4055		*******	¥3.5 9	7.3 7.9	88.3	97.3
Bills T2 8.000 J2 1.694 Wt1 2291 Grade M4 T2 6.000 J3 2.002 Wt3 719 Duct 0.000 T4 4.000 J4 1.001 Wt3 242 YokeTyp STD T6 0.000 J5 0.000 Wt5 0 Cycles 7 T7 0.000 J7 0.000 Wt7 0 Lams 1 T8 0.000 J8 0.000 Wt8 0 Lams 1 T8 0.000 J8 0.000 Wt7 0  Tube: TSCL 0.125 TSID 10.500 TSLDN 1 TSD TD 0.000 TSLD 0.124  LV Data; PV 277.1 SID 10.748 Ac 1. PI 1804.2 HT 30.000 WT 6 N 14 SB 1.713 LVCWT 2 Wire 0.040 x 30.000 SOD 14.174 STR 6.00 N-14 STR 6.00 CS 19 N-14 STR 6.00 CS 19 N-14 LV 0.250 CS 19 SD (2) 0.500 PGS STR P0 0.500	J 9.009 W 36.750 Z 23.125 Z1 0.000 CWT 4055			( 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7.9	93.5	97.9
State M4	J 9.009 W 36.750 Z 23.125 Z1 0.000 CWT 4055	Tot: 182					******
Legs 3 T5 0.000 J5 0.000 Wt3 719 Legs 3 T5 0.000 J5 0.000 Wt5 0 Cycles 7 T7 0.000 J5 0.000 Wt5 0 Cycles 7 T7 0.000 J7 0.000 Wt6 0 Lams 1 T8 0.000 J8 0.000 Wt6 0  Tube: TSCL 0.125 TSID 10.500 TSLDN 1 TSD  TD 0.000 TSLDN 1 TSD  TD 0.000 TSLDN 1 TSD  WT 0.000 WT 0.000 WT 0.000  WT 0.000 WT 0.000  WT 0.000 WT 0.000  WT 0.000 WT 0.000  WT 0.000 WT 0.000  WT 0.000 WT 0.000  WT 0.000 WT 0.000  WT 0.000 WT 0.000  WT 0.000 WT 0.000  WT 0.000 WT 0.000  WT 0.000 WT 0.000  WT 0.000 WT 0.000  WT 0.000 WT 0.000  WT 0.000 WT 0.000  WT 0.000 WT 0.000  WT 0.000 WT 0.000  W	J 9.009 W 36.750 Z 23.125 Z1 0.000 CWT 4055	Tot: 182					
YokeTyp STD T6 0.000 J5 0.000 Wt5 0 Cycles 7 T7 0.000 J6 0.000 Wt6 0 Lams 1 T8 0.000 J7 0.000 Wt7 0 Lams 1 T8 0.000 J8 0.000 Wt8 0 Tube: TSCL 0.125 TSID 10.500 TSLDN 1 TSD  TD 0.000 TSLDN 1 TSD  LV Data: PV 277.1 SID 10.748 AD 1.24  LV Data: PV 277.1 SID 10.748 AD 1.  PI 1804.2 HT 30.000 WT 4  FI 1804.2 HT 30.000 WT 4  Wire 0.040 x 30.000 SOD 14.174 STR 0.0  Wire 1.40 X 30.000 SOD 14.174 STR 0.0  N 14 LW 4.00 WSI 0.25  SD (2) 0.500 PGS STR PO 0.506 KWSI 0.25	2 23.125 21 0.000 CWT 4085	Tot: 182					
Cycles 7 T7 5.000 J6 0.000 Wt6 0 Lams 1 T8 0.000 J7 0.000 Wt7 0 0 Lams 1 T8 0.000 J8 0.000 Wt7 0 0 Lams 1 T8 0.000 J8 0.000 Wt7 0 0 LT 0.000 TSLDN 1 TSD 0.000 TSLDN 1 TSD 0.000 WT 0.0	2 23.125 21 0.000 CWT 4085	Tot: 182					
Lams 1 T8 0.000 J8 0.000 Wt7 0 Tube: TSCL 0.125 TSID 10.500 TSLDN 1 TSD  TD 0.000 TSLD 0.124  LV Data; PV 277.1 SID 10.748 Ac 1.  PI 1804.2 HT 30.000 WT 6  Wire 0.040 x 30.000 SOD 14.174 STR 6.00  N 14 SB 1.713 LVCWT 1  Wire 0.1040 x 30.000 SOD 14.174 STR 6.00  N 14 LV BRW 1 x 1  VD-T/L 1.0 IR 5  N-Lay 14 LW 4.00 WSI 0.20  SD (2) 0.500 PGS_STR P0 0.506 KWSI 0.20	41 0.000 CWT 4055	Tot: IR2					
Tube: TSCL 0.125 TSID 10.500 TSLDN 1 TSD TD 0.000 TSLD 0.124 TSD 0.125 TSD 0	1111111111	Tot: 182					
Tube: TSCL 0.125 TSID 10.500 TSLDN 1 TSD  TD 0.000 TSLD 0.124  LV Data: PV 277.1 SID 10.748 Ac 1 PI 1804.2 HT 30.000 WT 4  SB 1.713 LVCWT 2  Wire 0.240 x 30.000 SOD 14.174 STR 6.0  TD 0.000 TSLDN 1 TSD  WT 4  SD 1.713 LVCWT 2  Wire 0.240 x 30.000 SOD 14.174 STR 6.0  TD 0.250 CS 19  LL 48.00 WSI 0.25  SD (2) 0.500 PGS STR PO 0.506	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Tot: 182					
PV 277.1 SID 10.748 AC 1 PI 1804.2 HT 30.000 WT 4  N 14 SB 1.713 LVCWT 1  Wire 0.240 x 30.000 SOD 14.174 STR 5.0  HXW 1 x 1  VD-T/L 1.0 IT 0.250 IR 5  NLig 14 LW 4.00 WSI 0.25  SD (2) 0.500 PGS_STR PO 0.506 KWSI 0.25	0.000	Pot: IR2					
PV 277.1 SID 10.748 AC 1 PI 1804.2 HT 30.000 WT 4  N 14 SB 1.713 LVCWT 1  Wire 0.240 x 30.000 SOD 14.174 STR 5.0  HXW 1 x 1  VD-T/L 1.0 IT 0.250 IR 5  NLig 14 LW 4.00 WSI 0.25  SD (2) 0.500 PGS_STR PO 0.506 KWSI 0.25			0.90	1X4 6 1		* * * * * * *	
PV 277.1 SID 10.748 AC 1 PI 1804.2 HT 30.000 WT 4  N 14 SB 1.713 LVCWT 1  Wire 0.240 x 30.000 SOD 14.174 STR 5.0  HXW 1 x 1  VD-T/L 1.0 IT 0.250 IR 5  NLig 14 LW 4.00 WSI 0.25  SD (2) 0.500 PGS_STR PO 0.506 KWSI 0.25		town to		W. 31	* 124	6.21	X/R 6.8
Wire 0.040 x 30.000 MLT 39.15 S 1.5 Haw 1 x 1 ST 6.0 T/D-T/L 1.0 IT 0.250 CS 19 NLay 14 LW 4.00 WSI 0.3 SD (2) 0.500 PGS_STR P0 0.506 KWSI 0.3		Locate LL	TL	REE	EXC M	S. T.	
Wire 0.040 x 30.000 MLT 39.15 S 1.5 Haw 1 x 1 ST 6.0 T/D-T/L 1.0 IT 0.250 CS 19 NLay 14 LW 4.00 WSI 0.3 SD (2) 0.500 PGS_STR P0 0.506 KWSI 0.3	2500	1 30 125	35 24455	98.71	1.1 439	91ex	pf %Reg
Wire 0.040 x 30.000 MLT 39.15 S 1.5 Haw 1 x 1 ST 6.0 T/D-T/L 1.0 IT 0.250 CS 19 NLay 14 LW 4.00 WSI 0.3 SD (2) 0.500 PGS_STR P0 0.506 KWSI 0.3	535	0.75 767	20 16847	98.71 98.89 99.04	1.0 332	0 1 61	1.0 1.09
\( \text{YD-T/L} \) 1.0 \\ \text{IR} \) 5.250 \\ \text{R} \) 5.250 \\ \text{CB} \) 19 \\ \text{LW} \) 4.90 \\ \text{WSI} \) 0.35 \\ \text{SD} \( \text{2} \) 0.500 \\ \text{PGS} \) 57K \\ \text{PO} \) 0.506 \\ \text{KWSI} \) 0.25	259	0.50 330	17 2729	79.04	0.9 251	3 8 20	V-7 1.61
N-Lay 14 LT 0.250 CS 19 WLI 0.209 LW 4.00 WSI 0.3: SD (2) 0.500 PGS_STK PO 0.506 KWSI 0.2:	3035	0.25 84	5 4148	99.11 98.95			0.8 4.50 0.7 5.08
N-Lay 14 LW 4.90 CS 19 NLI 0.009 LL 48.00 KWSI 0.2: SD ( 2) 0.500 PGS_STR PO 0.506 KWSI 0.2:				20,34	Snd 64.00	}	0.6 5.49
SD ( 2) 0.500 PGS STR PO 0.500 WSI 0.3		C&C Wt &	972				
SD (2) 0.500 PGS STK PO 0.506 TRANS COM	99	Commission				Sub	TOC 15792
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EXPECTED 12: 6:21 x 1.608 = 6:26% (9:75 MTM)

OTHER JOBS: DS90629

