November 7, 2018

David Jones Engineered Controls International, LLC 100 Rego Drive Elon, NC 27244

Subject: Capacity Certification, Valve Type: A3149 (20% OP)

NB Cap Cert. No.: REG-M46291

Dear Mr. Jones:

We have reviewed the enclosed test results, referenced below, which were performed at the **National Board Testing Laboratory** on November 6, 2018 for the purpose of testing for capacity certification of the subject valve type as required by paragraph UG-136(c)(3) of Section VIII of the ASME Code.

Engineered Controls International, LLC is hereby granted capacity certification and authorization to apply the "NB" mark and ASME Certification mark with "UV" designator to the valve type listed in the scope of certification. This authorization is valid only for the above location and only while the organization is fully implementing its quality control system as accepted by the National Board.

SCOPE OF CERTIFICATION

Valve Type: A3149 (20% OP)

Organization Type: Manufacturer

Certified Rating Value/Sizes/Pressure Ranges: As listed in the NB-18

Certification Expiration Date: March 6, 2025

Sincerely,

Thomas P. Beirne, P.E. Technical Manager, Pressure Relief Dept.

REFERENCING TEST NUMBERS: 48475A, 48477A, 48478A, 48476A, 48542A, 48545A

File:GF: 181107 REG-M46291 Pass

	Valve ID Data	Revision 2.4		
1	Test Number	48475A		
2	Test Sponsor	Engineered Co	ontrols International, LLC	
3	Company Type	Manufacturer	,	Elon, N
4	Test Date	10/30/2018		RE
5	Valve Type	A3149		
6	Manufacturer		ontrols International, LLC	
7	Cap. Cert. ID No.	46291	, , , , , , , , , , , , , , , , , , ,	
8	Set Pressure	150 psig		
9	Inlet Size	2 1/2 M		
10	Outlet Size	Тор		
11	Stamped Capacity	6359. SCFM		
12	Code Section	VIII		
13	Serial Number			
14	Date Code	03B18		
	Operational Data and Measure	d Dimensions		
15	Warn Pressure		psig	
16	Set Pressure	172.2	psig	
17	Reset Set Pressure		psig	
18	Blowdown		psig	
19	Reset Blowdown		psi	
20	Bore Diameter	1.640	inch	
21	Lift	1.010	inch	
	Measured Data		mon	
22	Flow Area		in ²	
23	Line Pressure			
24	Differential Pressure		psig	
25	Line Temp.		psid °F	
26	Vessel Pressure			
27	Vessel Tessure Vessel Temp.		psig	
28	P _b	4404	°F	
29	Plate ID Number	14.34	psia	
29	Plate ID Number			
	Calculated Data			
	Line Pressure (absolute)	14.342		
	Line Pressure (absolute)	14.342	psia	
32	Density @ Flow Condition (w)		lbm/ft ³	
33	Area Factor (Fa)		IDITI/IL	
34	Trial Flow Rate			
35			lbm/sec	
36	Viscosity		lbm/ft-sec	
37	Reynolds Number RD			
07	Theoretical Capacity (WT)			
10	WT=CKAP√M/T	#VALUE!	lbm/hr N2	
18	Measured Capacity at Std. Cond.		lbm/hr N2	
9	Measured Capacity at Std. Cond	d.	SCFM AIR	
0	Slope		SCFM/PSIA	
2	Coefficient			
	Rated Capacity For Measured Se	t	SCFM	
3	Rated Slope			
4				

7-10-1-10-1-1	
Test Summary for test 48475A:	
Valve tested for 6 Year Capacity Recertif	E-0
Valve tested for 6 fear Capacity Recentle Valve set pressure is above +10% toleran	ication as a Manufacturer.
2. Valvo det produito la abova : 1070 toloian	ce
I certify that the data on the attached test data	ta sheets was obtained under my supervision in accordance with the
provisions of ASIME PTC 25, the applicable s	Sections of the ASME Boiler and Pressure Vessel Code, and the
tested were of the same type and design as in	ontrol Manual. To the best of my knowledge and belief the objects indicated.
RYAN FORD	10-30-18
Authorized Óbserver: Ryan Ford	Date
T D	
Test Personnel	Company Representatives
Steve Bowman	
Ryan Ford	
Tyun - ora	

	Valve ID Data	Revision 2.4		
1	Test Number	48476A		
2	Test Sponsor	Engineered Co	ntrols Internationa	I, LLC
3	Company Type	Manufacturer		Elon, NO
4	Test Date	10/30/2018		REC
5	Valve Type	A3149		
6	Manufacturer	Engineered Co	ntrols Internationa	I, LLC
7	Cap. Cert. ID No.	46291		
8	Set Pressure	150 psig		
9	Inlet Size	2 1/2 M		
10	Outlet Size	Тор		
11	Stamped Capacity	6359. SCFM		
12	Code Section	VIII		
13	Serial Number			
14	Date Code	03B18		
	Operational Data and Measured D	imensions		
15	Warn Pressure	161.7	psig	
16	Set Pressure	163.5	psig	
17	Reset Set Pressure		psig	
18	Blowdown	44.8	psi	
19	Reset Blowdown		psi	
20	Bore Diameter	1.640	inch	
21	Lift		inch	
	Measured Data			
22	Flow Area	2.11241	in ²	
23	Line Pressure	187.7	psig	
24	Differential Pressure	6.21	psid	
25	Line Temp.	26	°F	
26	Vessel Pressure	179.9	psig	
27	Vessel Temp.	44	°F	
28	P _b	14.34	psia	
29	Plate ID Number		8	2.87 Plate Dia.
			· ·	2.07 Flate Dia.
	Calculated Data			
	Line Pressure (absolute)	202.036	psia	
	•		poid	
32	Density @ Flow Condition (w)	1.0921	lbm/ft ³	
33	Area Factor (Fa)	0.999341		
34	Trial Flow Rate	8.5471	lbm/sec	
35	Viscosity	1.1058E-05	lbm/ft-sec	
36	Reynolds Number RD	3,258,798	ibitint 300	
37	Theoretical Capacity (WT)	0,200,700		
	WT=CKAP√M/T	34,422.6	lbm/hr N2	
38	Measured Capacity at Std. Cond.	30,769.5	lbm/hr N2	
39	Measured Capacity at Std. Cond.	6830.0	SCFM AIR	
40	Slope	35.163	SCFM/PSIA	
41	Coefficient	0.89387	30FW/F3IA	
12	Rated Capacity For Measured Set	6343.7	SCFM	
13	Rated Slope	32.66	SOFIVI	
14		52.00		

Test Summary for test 48476A:	
Valve tested for 6 Year Capacity Recertification as	
2. Valve tested as replacement for test number 48475	A tested at The National Board Testing Lab.
I certify that the data on the attached test data sheets v	was obtained under my supervision in accordance with the
provisions of ASME PTC 25, the applicable sections of	the ASME Boiler and Pressure Vessel Code, and the
tested were of the same type and design as indicated.	ual. To the best of my knowledge and belief the objects
,,	
RYAN FORD	10-30-18
Authorized Observer: Ryan Ford	Date
Took Domestical	
Test Personnel	Company Representatives
Tim Brown	
Steve Bowman	
Ryan Ford	

	Valve ID Data	Revision 2.4		
1	Test Number	48478A		
2	Test Sponsor	Engineered Co	ntrols Internationa	I. LLC
3	Company Type	Manufacturer		Elon, No
4	Test Date	10/30/2018		REC
5	Valve Type	A3149A150		
6	Manufacturer	Engineered Co	ntrols Internationa	I, LLC
7	Cap. Cert. ID No.	46291		
8	Set Pressure	150 psig		
9	Inlet Size	2 1/2 M		
10	Outlet Size	Тор		
11	Stamped Capacity	6359. SCFM		
12	Code Section	VIII		
13	Serial Number			
14	Date Code	03B18		
	Operational Data and Measured D	imensions		
15	Warn Pressure		psig	
16	Set Pressure	165.4	psig	
17	Reset Set Pressure		psig	
18	Blowdown	41.2	psi	
19	Reset Blowdown		psi	
20	Bore Diameter	1.637	inch	
21	Lift		inch	
	Measured Data			
22	Flow Area	2.10469	in ²	
23	Line Pressure	187.6	psig	
24	Differential Pressure	6.10	psid	
25	Line Temp.	37	°F	
26	Vessel Pressure	179.9	psig	
27	Vessel Temp.	51	°F	
28	P _b	14.31	psia	
29	Plate ID Number		8	2.87 Plate Dia.
	Calculated Data			
	Line Pressure (absolute)	201.912	psia	
32	Density @ Flow Condition (w)	1.0667	lbm/ft ³	
33	Area Factor (Fa)		IDITI/IL	
34	Trial Flow Rate	0.999510		
35		8.3753	Ibm/sec	
36	Viscosity	1.1245E-05	lbm/ft-sec	
37	Reynolds Number RD	3,139,991		
37	Theoretical Capacity (WT)			
20	WT=CKAP√M/T	34,058.7	lbm/hr N2	
38	Measured Capacity at Std. Cond.	30,151.0	lbm/hr N2	
39	Measured Capacity at Std. Cond.	6692.7	SCFM AIR	
40	Slope	34.461	SCFM/PSIA	
41	Coefficient	0.88526	The said	
42 43	Rated Capacity For Measured Set Rated Slope	6343,0 32.66	SCFM	

Test Summary for test 48478A:	
Valve tested for 6 Year Capacity Recertification as	
2. Valve tested as replacement for test number 48475	A tested at The National Board Testing Lab.
I certify that the data on the attached test data sheets v	vas obtained under my supervision in accordance with the
provisions of ASME PTC 25, the applicable sections of	the ASME Boiler and Pressure Vessel Code, and the ual. To the best of my knowledge and belief the objects
tested were of the same type and design as indicated.	ual. To trie best of my knowledge and belief the objects
RyAN FORD Authorized Observer: Ryan Ford	10-30-19
Authorized Observer: Ryan Ford	Date
Took Down and	
Test Personnel	Company Representatives
Steve Bowman	
Ryan Ford	

Test Number Test Sponsor Company Type Test Date Valve Type Manufacturer Cap. Cert. ID No. Set Pressure Filet Size Outlet Size	Manufacturer 10/30/2018 A3149A150 Engineered Control 46291 150 psig 2 1/2 M Top 6359. SCFM VIII	psig psig psig psig psig psig psi	Elon, NC REG
company Type rest Date Valve Type Manufacturer Cap. Cert. ID No. ret Pressure Plate Size Outlet Size O	Manufacturer 10/30/2018 A3149A150 Engineered Control 46291 150 psig 2 1/2 M Top 6359. SCFM VIII 03B18 mensions	psig psig psig psig	
company Type rest Date Valve Type Manufacturer Cap. Cert. ID No. ret Pressure Plate Size Outlet Size O	Manufacturer 10/30/2018 A3149A150 Engineered Control 46291 150 psig 2 1/2 M Top 6359. SCFM VIII 03B18 mensions	psig psig psig psig	
rest Date Valve Type Manufacturer Cap. Cert. ID No. Set Pressure Inlet Size Outlet Size Ou	10/30/2018 A3149A150 Engineered Control 46291 150 psig 2 1/2 M Top 6359. SCFM VIII 03B18 mensions	psig psig psig psi	
Manufacturer Cap. Cert. ID No. Set Pressure Filet Size Dutlet Size Stamped Capacity Code Section Ferial Number Filet Code Perational Data and Measured Di Varn Pressure Ferset Set Pressure Flowdown Flow	A3149A150 Engineered Control 46291 150 psig 2 1/2 M Top 6359. SCFM VIII 03B18 mensions	psig psig psig psi	
Manufacturer Cap. Cert. ID No. Set Pressure Filet Size Dutlet Size Stamped Capacity Code Section Ferial Number Filet Code Perational Data and Measured Di Varn Pressure Ferset Set Pressure Flowdown Flow	Engineered Control 46291 150 psig 2 1/2 M Top 6359. SCFM VIII 03B18 mensions	psig psig psig psi	
cap. Cert. ID No. Set Pressure Filet Size Outlet Size Stamped Capacity Code Section Ferial Number Filet Code Operational Data and Measured Di Varn Pressure Filet Pressure Fileset Set Pressure Flowdown Flowdown Filet Blowdown Filet Flowdown	46291 150 psig 2 1/2 M Top 6359. SCFM VIII 03B18 mensions	psig psig psig psi	
set Pressure solutiet Size solutiet Size stamped Capacity sode Section serial Number state Code solutional Data and Measured Di solutional Pressure set Pressure seset Set Pressure solutional Data and Measured Di solutional	150 psig 2 1/2 M Top 6359. SCFM VIII 03B18 mensions	psig psig psi	
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code Section Serial Number Ser	6359. SCFM VIII 03B18 mensions	psig psig psi	
perial Number pate Code perational Data and Measured Di Varn Pressure et Pressure eeset Set Pressure lowdown eset Blowdown ore Diameter ift leasured Data	03B18 mensions 154.7	psig psig psi	
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Varn Pressure et Pressure eeset Set Pressure lowdown eeset Blowdown ore Diameter ift leasured Data	154.7	psig psig psi	
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lowdown eset Blowdown ore Diameter ift leasured Data		psig psi	
eset Blowdown ore Diameter ift leasured Data	1.639	psi	
ore Diameter ift leasured Data	1.639		
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leasured Data		inch	
		inch	
low Area		in ²	
ine Pressure		psig	
ifferential Pressure		psid	
ne Temp.		°F	
essel Pressure		psig	
essel Temp.		°F	
b	14.32	psia	
late ID Number	14.02	рыа	
alculated Data			
ne Pressure (absolute)	14.317	psia	
ensity @ Flow Condition (w)		lbm/ft ³	
		lhm/sec	
•		IDITI/IL-36C	
VT=CKAPVM/T	#\/\\\\	lh /h NIO	
	#VALUE!		
		SCHW/PSIA	
25 H 5 15 H		COEM	
		SCHM	
ated Capacity For Measured Set			
	ensity @ Flow Condition (w) rea Factor (Fa) rial Flow Rate iscosity eynolds Number RD neoretical Capacity (WT) VT=CKAP√M/T easured Capacity at Std. Cond. easured Capacity at Std. Cond. ope pefficient ated Capacity For Measured Set ated Slope	rea Factor (Fa) rial Flow Rate riscosity eynolds Number RD neoretical Capacity (WT) VT=CKAP√M/T #VALUE! easured Capacity at Std. Cond. easured Capacity at Std. Cond. ope perfficient ated Capacity For Measured Set	rea Factor (Fa) rial Flow Rate Ibm/sec iscosity Ibm/ft-sec eynolds Number RD neoretical Capacity (WT) VT=CKAP√M/T #VALUE! Ibm/hr N2 easured Capacity at Std. Cond. Ibm/hr N2 easured Capacity at Std. Cond. SCFM AIR ope SCFM/PSIA oefficient ated Capacity For Measured Set SCFM

Test Summary for test 48477A:	
Valve tested for 6 Year Capacity Recertification as	
2. Valve failed to open at 20% over pressure of stampe	ed set pressure.
I certify that the data on the attached test data sheets w	vas obtained under my supervision in accordance with the
provisions of ASME PTC 25, the applicable sections of National Board Testing Laboratory Quality Control Man	the ASME Boiler and Pressure Vessel Code, and the ual. To the best of my knowledge and belief the objects
tested were of the same type and design as indicated.	au. To the best of my knowledge and belief the objects
RYAN FORD	10-30-18
Authorized Observer: Ryan Ford	Date
Test Personnel	Common Brown Lat
rest reisonner	Company Representatives
Steve Bowman	
Ryan Ford	

	Valve ID Data	Revision 2.4		
1	Test Number	48542A		
2	Test Sponsor	Engineered Co	ntrols Internationa	al, LLC
3	Company Type	Manufacturer		Elon, No
4	Test Date	11/6/2018		REC
5	Valve Type	A3149A150		
6	Manufacturer	Engineered Co	ntrols Internationa	I, LLC
7	Cap. Cert. ID No.	46291		•
8	Set Pressure	150 psig		
9	Inlet Size	2 1/2 M		
10	Outlet Size	Тор		
11	Stamped Capacity	6359. SCFM		
12	Code Section	VIII		
13	Serial Number			
14	Date Code	03B18		
	Operational Data and Measured D	imensions		
15	Warn Pressure		psig	
16	Set Pressure	163.6	psig	
17	Reset Set Pressure		psig	
18	Blowdown	44.6	psi	
19	Reset Blowdown		psi	
20	Bore Diameter	1.642	inch	
21	Lift		inch	
	Measured Data			
22	Flow Area	2.11756	in ²	
23	Line Pressure	188.6	psig	
24	Differential Pressure	6.24	psid	
25	Line Temp.	41	°F	
26	Vessel Pressure	180.0	psig	
27	Vessel Temp.	52	°F	
28	P_b	14.15	psia	
29	Plate ID Number		8	2.87 Plate Dia.
	Calculated Data			
	Line Pressure (absolute)	202.749	psia	
32	Density @ Flow Condition (w)	1.0625	lbm/ft ³	
33	Area Factor (Fa)		IDITI/IL	
34	Trial Flow Rate	0.999570		
35	Viscosity	8.4528	lbm/sec	
36		1.1312E-05	lbm/ft-sec	
37	Reynolds Number RD	3,150,265		
57	Theoretical Capacity (WT)			
20	WT=CKAP√M/T	34,229.6	lbm/hr N2	
38	Measured Capacity at Std. Cond.	30,430.1	lbm/hr N2	
39	Measured Capacity at Std. Cond.	6754.6	SCFM AIR	
10	Slope	34.791	SCFM/PSIA	
11	Coefficient	0.88900		
12	Rated Capacity For Measured Set	6340.9	SCFM	
13	Rated Slope	32.66		
14				

Test Summary for test 48542A:	
1 Valvo tosted for 6 Voor Canacity Reportifica	tion on a Manufacture
Valve tested for 6 Year Capacity Recertifica Valve tested as replacement for test number	ition as a manufacturer. er 48477A tested at The National Board Testing Lab.
2. Valvo tostou as replacement for test numbe	1 40477A tested at The National Board Testing Lab.
I certify that the data on the attached test data s	sheets was obtained under my supervision in accordance with the
provisions of ASME PTC 25, the applicable sec	tions of the ASME Boiler and Pressure Vessel Code, and the
provisions of ASME PTC 25, the applicable sec National Board Testing Laboratory Quality Cont	tions of the ASME Boiler and Pressure Vessel Code, and the rol Manual. To the best of my knowledge and belief the objects
provisions of ASME PTC 25, the applicable sec National Board Testing Laboratory Quality Cont tested were of the same type and design as ind	tions of the ASME Boiler and Pressure Vessel Code, and the rol Manual. To the best of my knowledge and belief the objects icated.
Provisions of ASME PTC 25, the applicable sec National Board Testing Laboratory Quality Cont tested were of the same type and design as ind	tions of the ASME Boiler and Pressure Vessel Code, and the rol Manual. To the best of my knowledge and belief the objects icated.
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National Board Testing Laboratory Quality Cont tested were of the same type and design as ind Ryan Forp Authorized Observer: Ryan Ford	tions of the ASME Boiler and Pressure Vessel Code, and the rol Manual. To the best of my knowledge and belief the objects icated.
provisions of ASME PTC 25, the applicable sec National Board Testing Laboratory Quality Cont tested were of the same type and design as ind	tions of the ASME Boiler and Pressure Vessel Code, and the rol Manual. To the best of my knowledge and belief the objects icated.
Provisions of ASME PTC 25, the applicable sec National Board Testing Laboratory Quality Cont tested were of the same type and design as ind Ryan Fore Authorized Observer: Ryan Ford Test Personnel	tions of the ASME Boiler and Pressure Vessel Code, and the rol Manual. To the best of my knowledge and belief the objects icated.
Provisions of ASME PTC 25, the applicable sec National Board Testing Laboratory Quality Cont tested were of the same type and design as ind Ryan Fore Authorized Observer: Ryan Ford Test Personnel Tim Brown	tions of the ASME Boiler and Pressure Vessel Code, and the rol Manual. To the best of my knowledge and belief the objects icated.
Provisions of ASME PTC 25, the applicable sec National Board Testing Laboratory Quality Cont tested were of the same type and design as ind Ryan Foro Authorized Observer: Ryan Ford Test Personnel Tim Brown	tions of the ASME Boiler and Pressure Vessel Code, and the rol Manual. To the best of my knowledge and belief the objects icated.
Provisions of ASME PTC 25, the applicable sec National Board Testing Laboratory Quality Cont tested were of the same type and design as ind RyAN FORD Authorized Observer: Ryan Ford Test Personnel	tions of the ASME Boiler and Pressure Vessel Code, and the rol Manual. To the best of my knowledge and belief the objects icated.
Provisions of ASME PTC 25, the applicable sec National Board Testing Laboratory Quality Cont tested were of the same type and design as ind RAN FORD Authorized Observer: Ryan Ford Test Personnel Tim Brown	tions of the ASME Boiler and Pressure Vessel Code, and the rol Manual. To the best of my knowledge and belief the objects icated. - -
Provisions of ASME PTC 25, the applicable sec National Board Testing Laboratory Quality Cont tested were of the same type and design as ind RAN FORD Authorized Observer: Ryan Ford Test Personnel Tim Brown	tions of the ASME Boiler and Pressure Vessel Code, and the rol Manual. To the best of my knowledge and belief the objects icated. - -
Provisions of ASME PTC 25, the applicable sec National Board Testing Laboratory Quality Cont tested were of the same type and design as ind RAN FORD Authorized Observer: Ryan Ford Test Personnel Tim Brown	tions of the ASME Boiler and Pressure Vessel Code, and the rol Manual. To the best of my knowledge and belief the objects icated. - -

	Valve ID Data	Revision 2.4		
1	Test Number	48545A		
2	Test Sponsor	Engineered Co	ntrols Internationa	I. LLC
3	Company Type	Manufacturer		Elon, NC
4	Test Date	11/6/2018		REG
5	Valve Type	A3149A150		
6	Manufacturer	Engineered Co	ntrols Internationa	I, LLC
7	Cap. Cert. ID No.	46291		,
8	Set Pressure	150 psig		
9	Inlet Size	2 1/2 M		
10	Outlet Size	Тор		
11	Stamped Capacity	6359. SCFM		
12	Code Section	VIII		
13	Serial Number			
14	Date Code	03B18		
	Operational Data and Measured D			
15	Warn Pressure	161.9	psig	
16	Set Pressure	163.5	psig	
17	Reset Set Pressure		psig	
18	Blowdown	42.3	psi	
19	Reset Blowdown		psi	
20	Bore Diameter	1.640	inch	
21	Lift		inch	
	Measured Data			
22	Flow Area	2.11241	in ²	
23	Line Pressure	187.1	psig	
24	Differential Pressure	5.72	psid	
25	Line Temp.	39	°F	
26	Vessel Pressure	179.7	psig	
27	Vessel Temp.	53	°F	
28	Pb	14.15	psia	
29	Plate ID Number		8	2.87 Plate Dia.
	Calculated Data			
	Line Pressure (absolute)	201.249	psia	
00	D			
32	Density @ Flow Condition (w)	1.0587	lbm/ft ³	
33	Area Factor _(Fa)	0.999541		
34	Trial Flow Rate	8.0861	lbm/sec	
35	Viscosity	1.1280E-05	lbm/ft-sec	
36	Reynolds Number RD	3,022,239		
37	Theoretical Capacity (WT)			
	WT=CKAP√M/T	34,060.6	lbm/hr N2	
38	Measured Capacity at Std. Cond.	29,110.0	lbm/hr N2	
39	Measured Capacity at Std. Cond.	6461.6	SCFM AIR	
40	Slope	33.333	SCFM/PSIA	
41	Coefficient	0.85465		
42	Rated Capacity For Measured Set	6331.1	SCFM	
43	Rated Slope	32.66		
44				

	T-10	
N. C.	Test Summary for test 48545A:	
	Valve tested for 6 Year Capacity Recertification as	
	2. Valve tested as replacement for test number 48477	A tested at The National Board Testing Lab.
	I certify that the data on the attached test data sheets v	vas obtained under my supervision in accordance with the
	provisions of ASME PTC 25, the applicable sections of	the ASME Boiler and Pressure Vessel Code, and the
	National Board Testing Laboratory Quality Control Manual	ual. To the best of my knowledge and belief the objects
	tested were of the same type and design as indicated.	
	RIAN FORD	11-1-16
	Ry AN FORD Authorized Observer: Ryan Ford	//- 6 - / 8 Date
	rtamonizod observer. rtyan i ord	Date
	Test Personnel	Company Representatives
		Company Nepresentatives
	Tim Brown	
	Ryan Ford	
	. •	