Winnipeg INSTRUMI					20		0010	AIIAI	0 F0DM			Page	1 of 3	
				COMMISSIONING FORM ENT TRANSMITTER (CONTROLLER) Equipment Tag:										
#	Facility: Project Name:											1.1.		
Project	i domity.						unio.							
	Area:				RF	P No.					Tender N	0.		
# #	Gene	ral Cont	tractor:			Pro	ject M	lanag	er:					
Project Contact	Cons	ultant:				Coi	ntract .	Admi	nistrator:					
ĒΫ	City o	of Winni	oeg			Coi	nsultin	ıg Pro	ject Manage	r:				
	Draw	ings:	P&ID:			Con	ntrol Pa	anel:			Loop Diag	ıram:		
ent		90.	Room Ir	stalled:		+	ipmen					gnal:	 0 mA П	0 – 10V
Instrument Data	Inetr	ument:	Manufac			+ -	alog N				Serial #:			
lus	iiisu	umem.	Power S	Supply: VA	C / VDC	Loo	p Pow	ered	☐ Yes	□No	Auxiliary (Contacts	Yes	☐ No
				-117							Provided:			
	Instru	ıment La	amacoid	Installed:	☐ Yes		□ N	lo	Instrument P	roperly Mo	unted:		☐ Yes	☐ No
/ uc	Powe	r Cable	s Labelle	d at Both Ends:	☐ Yes				Control Cable		d at Both E	inds:	☐ Yes	☐ No
ectic ing	Cleanliness: Good					ptable	: 🗆 P		Wiring Match Diagram:	ies Loop	1	☐ Good ☐ A	Acceptable	☐ Poor
Visual Inspection / Cleaning	Fully Functioning Good G					ptable	: 🗆 P	oor	Fully Functio Signal(s):	ning Outpu	ıt l	☐ Good ☐ A	Acceptable	☐ Poor
Visu	Instrument Display Works Properly:					☐ No	D 🗌 N	I/A	Equipment C	leaned: [☐ Yes F	Photographs T	aken:	☐ Yes
	Com	ments:												
	Test instrument for normal analog reading level along with alarm level condition. Operational testing should be done as follows: 1. For flow detection, use a multimeter to simulate 2. For gas detection, use a gas calibration kit to simulate signal for flow alarm level 3. For level detection, use a physical level and/or simulated signal for level alarm level. 4. For pressure detection, use a multimeter to simulate signal for pressure alarm level. 5. For temperature detection, use a heat gun and/or multimeter for temperature alarm level. 6. For vibration detection, use a multimeter to simulate signal for vibration alarm level.													
ing	Analo Read		uts Match	n Instrument	□Y	es [] No	Displ	ay Reflects Ir	nstrument	Readings (if applicable):	☐ Yes	□No
al Test			ion Visua plicable)	ally Appears on	□ Y	es [Condition A	nnunciates	s from Inst	rument	☐ Yes	□No
eration				atically Reset Onc applicable):	e 🗆 Y	es [n Output Con s Reached (i			Vhen Alarm	☐ Yes	□No
Instrument Operational Testing		Sens	or	Mode Des	scription			Ala	rm Output C	ontact Stat		ured Analog tput Signal	Instrument (include	
	sapo	Senso		rument Normal Lev	vel Opera	tion	I	□ O _I	pened 🗌 C	losed 🗌 N	I/A	□ mA □ V		□ N/A
	Operating Modes	Seriso		rument Alarm Leve	el Operati	on	I	□ O _l	pened 🗌 C	losed 🗌 N	I/A	□ mA □ V		□ N/A
	Oper	Senso	r 2	rument Normal Lev	vel Opera	tion	l		pened 🗆 C	losed 🗌 N	I/A	□ mA □ V		□ N/A
		□ N/A	Insti	rument Alarm Leve	el Operati	on		□ O _l	pened 🗌 C	losed 🗌 N	I/A	□ mA □ V		□ N/A

Comments:

Winnipeg			COMMISSIONING FORM		Page	2 of 3
		INSTRUME	NSTRUMENT TRANSMITTER (CONTROLLER)			
oject	Facility:		Project Name:			
Area:			RFP No.	Tender No		

	Verify	Control Signals Betwe	en Instrument	and Control Panel	Comments:			
	Test F		sical signals ra or signals	ther than installing				
	Field \	Vires Labelled at Both	Ends:	☐ Yes ☐ No				
	Analog Output Signal 1	Signal Type (Flow, Gas Reading, Level, Pressure, Temperature, Vibration, etc.)	Gas Reading, Fransmitter Display Measured Comperature, (include Units)		Output Received at PLC Card	Signal Appears on HMI Screen	SCADA Can See Signal	
	Analo Siç	□ N/A □ mA □ V		☐ Yes ☐ No ☐ N/A ☐ Yes ☐ No ☐ N/A		☐ Yes ☐ No ☐ N/A		
nals	Analog Output Signal 2	Signal Type (Flow, Gas Reading, Level, Pressure, Temperature, Vibration, etc.)	Transmitter Display (include units)	Measured Output Signal	Output Received at PLC Card	Signal Appears on HMI Screen	SCADA Can See Signal	
Instrument Output Control Signals	Analo Si	□ N/A	□ N/A □ mA □ V		☐ Yes ☐ No ☐ N/A ☐ Yes ☐ No ☐ N/A		☐ Yes ☐ No ☐ N/A	
Itput Co	te 1	Signal Description	State	Description	Output Received at PLC Card	Signal Appears on HMI Screen	SCADA Can See Signal	
nt O	Discrete Output 1		0		☐ Yes ☐ No ☐ N/A	☐ Yes ☐ No ☐ N/A	☐ Yes ☐ No ☐ N/A	
rume		□ N/A	1		☐ Yes ☐ No ☐ N/A	☐ Yes ☐ No ☐ N/A	☐ Yes ☐ No ☐ N/A	
Inst	2 2	Signal Description	State	Description	Output Received at PLC Card	Signal Appears on HMI Screen	SCADA Can See Signal	
	Discrete Output 2		0		☐ Yes ☐ No ☐ N/A	☐ Yes ☐ No ☐ N/A	☐ Yes ☐ No ☐ N/A	
		□ N/A	1		☐ Yes ☐ No ☐ N/A	☐ Yes ☐ No ☐ N/A	☐ Yes ☐ No ☐ N/A	
	ite t 3	Signal Description	State	Description	Output Received at PLC Card	Signal Appears on HMI Screen	SCADA Can See Signal	
	Discrete Output 3		0		☐ Yes ☐ No ☐ N/A	☐ Yes ☐ No ☐ N/A	☐ Yes ☐ No ☐ N/A	
		□ N/A	1		☐ Yes ☐ No ☐ N/A	☐ Yes ☐ No ☐ N/A	☐ Yes ☐ No ☐ N/A	
	ete t 4	Signal Description	State	Description	Output Received at PLC Card	Signal Appears on HMI Screen	SCADA Can See Signal	
	Discrete Output 4		0		☐ Yes ☐ No ☐ N/A	☐ Yes ☐ No ☐ N/A	☐ Yes ☐ No ☐ N/A	
		□ N/A	1		☐ Yes ☐ No ☐ N/A	☐ Yes ☐ No ☐ N/A	☐ Yes ☐ No ☐ N/A	
	Retur	ned to Service:		☐ Yes ☐ No	Comments:		1	
Final Analysis		oring / Further Inspecti	on Required:	☐ Yes ☐ No	1			
Ană		r / Replacement Requi	•	☐ Yes ☐ No				

Winnipeg			COMMISSIONING FORM		Page	3 of 3
		INSTRUMENT TRANSMITTER (CONTROLLER)			Equipment Tag:	
oject	Facility:		Project Name:			
Pro	Area:		RFP No.).		

	Company	Name	Signature	Date (yyyy/mm/dd)
General Contractor Representative				
City Representative				

Note: The General Contractor Representative is responsible for ensuring that the data is transcribed from the handwritten form correctly, and that the analysis results are correct.



INSTRUMENTATION SWITCH CHECKLIST

Page 1 of 1

			P	Project						
Facility: Project Name:										
Area : Bid Opportunity:										
Instrument										
Tag:		Descript	ion:							
Manufacturer: Model: Serial Number:										
			Inspect	tion Checklis	st					
No. Item to be	pe Inspected						Comme	nts		Pass (P/F)
1. Instrumer	nt type and class per P&ID a	and speci	ification							
2. Instrumer	nt tag(s) installed and correc	<u>ct</u>								
3. Installatio	on of sensor complete and c	orrect								
	d drain valves									<u> </u>
	tic / hydraulic tubing leak tes									
	sing / insulation / instrument	housing								
7. Wiring co										
	s marked up as-built									<u> </u>
9. HMI Grap	phic symbol and tag correct									
			State	e Checklist						
State State D			PLC Input	Local HMI	S	CADA		Alarm	1	Pass (P/F)
0							On Off			(,
1							□ On □ Off		— □ N/A	
				libration		= - ••				T
Transition	Setpoint Trip Point (incl. units)		Actual Trip Po (incl. units)			Setpoint Fime Delay			tual Delay	Pass (P/F)
0 → 1										
1 → 0										
Comments:										
Comments.										
	1								<u> </u>	
	Company	Name	1	Sı	Signatur	re		Da	ate (yyyy/mm/d	(bk
Tested By										
Witnessed By										



10. HMI Graphic symbol, tag and units correct

INSTRUMENTATION TRANSMITTER LOOP CHECKLIST

Page 1 of 2

		Project						
lity:		Project Name:						
ı:		Bid Opportunity:						
		Instrument (Sensor /	Element)				
	Descrip	tion:						
ufacturer:	Model:			Serial Number:				
		T	-					
		Transmitter						
	Descrip	tion:						
ufacturer:	Model:			Serial Number:				
5:	-							
Output 4-20 mA Modbus Other:								
		Inspection Chec	klist					
Item to be Inspected				Comments	Pass (P/F)			
Instrument type and class per P&ID a	and spec	cification						
Instrument tag(s) installed and correct	ct							
Installation of sensor complete and c	orrect							
Block and drain valves								
Pneumatic / hydraulic tubing leak tested								
6. Heat tracing / insulation / instrument housing								
'. Impulse lines pressure tested								
Wiring correct								
Drawings marked up as-built								
	ufacturer: ufacturer: ufacturer: s: out	Descrip ufacturer: Model:	Instrument (Sensor / Description: ufacturer: Model: Transmitter Description: Model: Design Range: - Put	Instrument (Sensor / Element Description: Description:	Instrument (Sensor / Element) Description: Serial Number:			



INSTRUMENTATION TRANSMITTER LOOP CHECKLIST

Page 2 of 2

		Signal Validation			
Input Signal	Location	Design Value	Actual Value	Error (%)	Pass (P/F)
	Transmitter Display				
	Transmitter Output				
	Process Display				
	PLC				
	НМІ				
	Transmitter Display				
Ī	Transmitter Output				
	Process Display				
	PLC				
Ī	НМІ				
	Transmitter Display				
Ī	Transmitter Output				
Ī	Process Display				
Ī	PLC				
Ī	НМІ				

Notes:
1.
2.

Comments:

Witnessed By

- Attach factory calbration forms for all instruments where provided and/or specified. Provide instrument parameters for each parameter changed from the factory default.

	Company	Name	Signature	Date (yyyy/mm/dd)
Tested By				