







	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)	 
	Construction	
	Hazardous Area Ex Equipment Inspection Checklist	
A-ITR-Ex-021		




TASK NO.:	T-00193-1314	PHASE:	Construction												
SYSTEM NO.:	ISND-627-30	SYSTEM DESCRIPTION:	POWER GENERATION, DISTRIBUTION SYSTEM												
SUBSYSTEM NO.:	ISND-627-30-10	SUBSYSTEM DESCRIPTION:	Ex Equipment Certification												
FACILITY:	ISND-WHP-S007	AREA:	S01 - MAIN DECK												
TAG NO.:	627-30-DB-02-1R-SW3-Ex	TAG DESCRIPTION:	Switch												
APPLICABLE PROCEDURE:	YPS1-2-25-0001	ACCEPTANCE CRITERIA:	YPS1-2-05-0001												
AREA DATA		EQUIPMENT DETAILS													
Location:		Ex Certificate:										Cert. Body:			
Layout Drawing:	S007-2-67-0006-001	Model:										Gas Group:			
Zone:		Serial Number:										Temp Class:			
Gas Group:		Ex Concept:										IP Rating:			
Temp Class:		Manufacturer:										Product Date:			
	No.	Description	Ex de	Ex d	Ex e	Ex n	Ex i	Ex q	Ex o	Ex m	Ex p	OK	NA	PL	
A - EQUIPMENT	1	Equipment is appropriate to the EPL/Zone requirements of the location.													
	2	Equipment group correct.					N/A								
	3	Equipment temperature class correct.													
	4	Circuit and/or equipment category and group correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	5	Equipment identification is available and correct.													
	6	Equipment installed is that specified in the documentation – fixed equipment only.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	7	Enclosure, glass to-metal sealing gaskets and/or compounds are satisfactory.						N/A		N/A					
	8	There are no unauthorized modifications.													
	9	Lamp rating, type and position are correct.					N/A	N/A	N/A	N/A					
	10	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in accordance with the certification requirements and securely earthed where required.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	11	Bolts, cable glands and MCTs (direct and indirect) and blanking elements are of the correct type and are complete and properly torqued.					N/A				N/A				
	12	Flange faces are clean and undamaged and gaskets, if any, are satisfactory.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	13	Flange gap dimensions are within maximal values permitted.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	14	Electrical connections are tight and properly torqued									N/A				

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)						 	
	Construction							
	Hazardous Area Ex Equipment Inspection Checklist							
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B - I NS T A L L A T I O N	15	Condition of enclosure gaskets is satisfactory.		N/A			N/A				N/A			
	16	Enclosed-break and hermetically sealed devices are undamaged.	N/A	N/A	N/A		N/A				N/A			
	17	Restricted breathing enclosure is satisfactory.	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A			
	18	Motor fans have sufficient clearance to enclosure and/ or covers.					N/A	N/A	N/A	N/A	N/A			
	19	Breathing and draining devices are satisfactory.					N/A			N/A	N/A			
	20	Printed circuit boards are clean and undamaged.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	21	Type of cable is appropriate and installed in accordance with documentation.												
	22	Cable screens are earthed in accordance with the documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	23	There is no obvious damage to cables.												
	24	Sealing of trunking, ducts, pipes and/ or conduits is satisfactory.									N/A			
	25	Stopping boxes and cable boxes are correctly filled.			N/A	N/A	N/A				N/A			
	26	Integrity of conduit system and interface with mixed system is maintained.					N/A				N/A			
	27	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section).					N/A							
	28	Fault loop impedance (TN systems) or earthing resistance is satisfactory.					N/A							
	29	Insulation resistance is satisfactory.					N/A				N/A			
	30	Automatic electrical protective devices operate within permitted limits.					N/A							
	31	Automatic electrical protective devices are set correctly (auto re-set not possible).					N/A							
	32	Points to point connections are all correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	33	Earth continuity is satisfactory (e.g. Connections are tight, conductors are of sufficient cross-section) for non-galvanically isolated circuits.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	34	Earth connections maintain the integrity of the type of protection.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	35	Intrinsically safe circuit earthing and insulation resistance is satisfactory.	N/A	N/A	N/A	N/A					N/A			

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
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	36	Separation is maintained between intrinsically safe and non-intrinsically safe circuits in common distribution boxes or relay cubicles.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	37	As applicable, short circuit protection of the power supply is in accordance with documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	38	Special conditions of use (if applicable) are complied with.												
	39	Cables/Cores not in use are correctly terminated.									N/A			
	40	Obstructions adjacent to flameproof flanged joints are in accordance with IEC 60079-14.			N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	41	Variable voltage / frequency installation in accordance with documentation.					N/A	N/A	N/A	N/A	N/A			
	42	No evidence of leakage of filling material.	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A			
	43	Protective liquid is between minimum and maximum permissible levels.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	44	Protective liquid is compliant with IEC 60079-6 clause 4.2.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	45	No sign of deterioration of protective liquid by dust or humidity.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	46	No evidence of loosening of external fasteners.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	47	No evidence of loss of protective liquid.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	48	No exposure of encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure in adhesion or softening.	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A			
	49	Protective gas inlet temperature is below maximum specified.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	50	Ducts, pipes and enclosures are in good condition.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	51	Protective gas is substantially free from contaminants.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	52	Protective gas pressure and/or flow is adequate.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	53	Pressure and/or flow indicators, alarms and interlocks function correctly.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	54	Conditions of spark and practical barriers of ducts for exhausting the gas in hazardous area are satisfied.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
C - EN	55	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors.												

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
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V	56	No undue accumulation of dust and dirt or humidity.												
	57	Electrical installation is clean and dry.									N/A			
COMMENTS:														
VALIDATION ROLES		SUB-CONTRACTOR	CONTRACTOR		TPI				COMPANY					
NAME														
SIGNATURE														
POSITION														
DATE														

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)	 
	Construction	
	Hazardous Area Ex Equipment Inspection Checklist	
A-ITR-Ex-021		




TASK NO.:	T-00193-1606	PHASE:	Construction												
SYSTEM NO.:	ISND-627-30	SYSTEM DESCRIPTION:	POWER GENERATION, DISTRIBUTION SYSTEM												
SUBSYSTEM NO.:	ISND-627-30-10	SUBSYSTEM DESCRIPTION:	Ex Equipment Certification												
FACILITY:	ISND-WHP-S007	AREA:	S01 - MAIN DECK												
TAG NO.:	627-30-DB-02-3B-SW1-Ex	TAG DESCRIPTION:	Switch												
APPLICABLE PROCEDURE:	YPS1-2-25-0001	ACCEPTANCE CRITERIA:	YPS1-2-05-0001												
AREA DATA		EQUIPMENT DETAILS													
Location:		Ex Certificate:										Cert. Body:			
Layout Drawing:	S007-2-67-0005-001	Model:										Gas Group:			
Zone:		Serial Number:										Temp Class:			
Gas Group:		Ex Concept:										IP Rating:			
Temp Class:		Manufacturer:										Product Date:			
	No.	Description	Ex de	Ex d	Ex e	Ex n	Ex i	Ex q	Ex o	Ex m	Ex p	OK	NA	PL	
A - EQUIPMENT	1	Equipment is appropriate to the EPL/Zone requirements of the location.													
	2	Equipment group correct.					N/A								
	3	Equipment temperature class correct.													
	4	Circuit and/or equipment category and group correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	5	Equipment identification is available and correct.													
	6	Equipment installed is that specified in the documentation – fixed equipment only.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	7	Enclosure, glass to-metal sealing gaskets and/or compounds are satisfactory.						N/A		N/A					
	8	There are no unauthorized modifications.													
	9	Lamp rating, type and position are correct.					N/A	N/A	N/A	N/A					
	10	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in accordance with the certification requirements and securely earthed where required.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	11	Bolts, cable glands and MCTs (direct and indirect) and blanking elements are of the correct type and are complete and properly torqued.					N/A				N/A				
	12	Flange faces are clean and undamaged and gaskets, if any, are satisfactory.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	13	Flange gap dimensions are within maximal values permitted.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	14	Electrical connections are tight and properly torqued									N/A				

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
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B - I NS TA LL AT IO N	15	Condition of enclosure gaskets is satisfactory.		N/A			N/A				N/A			
	16	Enclosed-break and hermetically sealed devices are undamaged.	N/A	N/A	N/A		N/A				N/A			
	17	Restricted breathing enclosure is satisfactory.	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A			
	18	Motor fans have sufficient clearance to enclosure and/ or covers.					N/A	N/A	N/A	N/A	N/A			
	19	Breathing and draining devices are satisfactory.					N/A			N/A	N/A			
	20	Printed circuit boards are clean and undamaged.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	21	Type of cable is appropriate and installed in accordance with documentation.												
	22	Cable screens are earthed in accordance with the documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	23	There is no obvious damage to cables.												
	24	Sealing of trunking, ducts, pipes and/ or conduits is satisfactory.									N/A			
	25	Stopping boxes and cable boxes are correctly filled.			N/A	N/A	N/A				N/A			
	26	Integrity of conduit system and interface with mixed system is maintained.					N/A				N/A			
	27	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section).					N/A							
	28	Fault loop impedance (TN systems) or earthing resistance is satisfactory.					N/A							
	29	Insulation resistance is satisfactory.					N/A				N/A			
	30	Automatic electrical protective devices operate within permitted limits.					N/A							
	31	Automatic electrical protective devices are set correctly (auto re-set not possible).					N/A							
	32	Points to point connections are all correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	33	Earth continuity is satisfactory (e.g. Connections are tight, conductors are of sufficient cross-section) for non-galvanically isolated circuits.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	34	Earth connections maintain the integrity of the type of protection.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	35	Intrinsically safe circuit earthing and insulation resistance is satisfactory.	N/A	N/A	N/A	N/A					N/A			

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
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	36	Separation is maintained between intrinsically safe and non-intrinsically safe circuits in common distribution boxes or relay cubicles.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	37	As applicable, short circuit protection of the power supply is in accordance with documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	38	Special conditions of use (if applicable) are complied with.												
	39	Cables/Cores not in use are correctly terminated.									N/A			
	40	Obstructions adjacent to flameproof flanged joints are in accordance with IEC 60079-14.			N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	41	Variable voltage / frequency installation in accordance with documentation.					N/A	N/A	N/A	N/A	N/A			
	42	No evidence of leakage of filling material.	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A			
	43	Protective liquid is between minimum and maximum permissible levels.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	44	Protective liquid is compliant with IEC 60079-6 clause 4.2.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	45	No sign of deterioration of protective liquid by dust or humidity.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	46	No evidence of loosening of external fasteners.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	47	No evidence of loss of protective liquid.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	48	No exposure of encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure in adhesion or softening.	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A			
	49	Protective gas inlet temperature is below maximum specified.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	50	Ducts, pipes and enclosures are in good condition.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	51	Protective gas is substantially free from contaminants.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	52	Protective gas pressure and/or flow is adequate.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	53	Pressure and/or flow indicators, alarms and interlocks function correctly.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	54	Conditions of spark and practical barriers of ducts for exhausting the gas in hazardous area are satisfied.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
C - EN	55	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors.												

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)		 
	Construction		
	Hazardous Area Ex Equipment Inspection Checklist		
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V	56	No undue accumulation of dust and dirt or humidity.												
	57	Electrical installation is clean and dry.										N/A		
COMMENTS:														
VALIDATION ROLES		SUB-CONTRACTOR	CONTRACTOR		TPI			COMPANY						
NAME														
SIGNATURE														
POSITION														
DATE														

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)	 
	Construction	
	Hazardous Area Ex Equipment Inspection Checklist	
A-ITR-Ex-021		




TASK NO.:	T-00193-1442	PHASE:	Construction												
SYSTEM NO.:	ISND-627-30	SYSTEM DESCRIPTION:	POWER GENERATION, DISTRIBUTION SYSTEM												
SUBSYSTEM NO.:	ISND-627-30-10	SUBSYSTEM DESCRIPTION:	Ex Equipment Certification												
FACILITY:	ISND-WHP-S007	AREA:	S01 - MAIN DECK												
TAG NO.:	627-30-DB-02-6B-SKT1-Ex	TAG DESCRIPTION:	Socket Outlet												
APPLICABLE PROCEDURE:	YPS1-2-25-0001	ACCEPTANCE CRITERIA:	YPS1-2-05-0001												
AREA DATA		EQUIPMENT DETAILS													
Location:		Ex Certificate:										Cert. Body:			
Layout Drawing:	S007-2-67-0005-001	Model:										Gas Group:			
Zone:		Serial Number:										Temp Class:			
Gas Group:		Ex Concept:										IP Rating:			
Temp Class:		Manufacturer:										Product Date:			
	No.	Description	Ex de	Ex d	Ex e	Ex n	Ex i	Ex q	Ex o	Ex m	Ex p	OK	NA	PL	
A - EQUIPMENT	1	Equipment is appropriate to the EPL/Zone requirements of the location.													
	2	Equipment group correct.					N/A								
	3	Equipment temperature class correct.													
	4	Circuit and/or equipment category and group correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	5	Equipment identification is available and correct.													
	6	Equipment installed is that specified in the documentation – fixed equipment only.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	7	Enclosure, glass to-metal sealing gaskets and/or compounds are satisfactory.						N/A		N/A					
	8	There are no unauthorized modifications.													
	9	Lamp rating, type and position are correct.					N/A	N/A	N/A	N/A					
	10	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in accordance with the certification requirements and securely earthed where required.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	11	Bolts, cable glands and MCTs (direct and indirect) and blanking elements are of the correct type and are complete and properly torqued.					N/A				N/A				
	12	Flange faces are clean and undamaged and gaskets, if any, are satisfactory.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	13	Flange gap dimensions are within maximal values permitted.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	14	Electrical connections are tight and properly torqued									N/A				

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											




B - I NS T A L L A T I O N	15	Condition of enclosure gaskets is satisfactory.		N/A			N/A				N/A			
	16	Enclosed-break and hermetically sealed devices are undamaged.	N/A	N/A	N/A		N/A				N/A			
	17	Restricted breathing enclosure is satisfactory.	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A			
	18	Motor fans have sufficient clearance to enclosure and/ or covers.					N/A	N/A	N/A	N/A	N/A			
	19	Breathing and draining devices are satisfactory.					N/A			N/A	N/A			
	20	Printed circuit boards are clean and undamaged.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	21	Type of cable is appropriate and installed in accordance with documentation.												
	22	Cable screens are earthed in accordance with the documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	23	There is no obvious damage to cables.												
	24	Sealing of trunking, ducts, pipes and/ or conduits is satisfactory.									N/A			
	25	Stopping boxes and cable boxes are correctly filled.			N/A	N/A	N/A				N/A			
	26	Integrity of conduit system and interface with mixed system is maintained.					N/A				N/A			
	27	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section).					N/A							
	28	Fault loop impedance (TN systems) or earthing resistance is satisfactory.					N/A							
	29	Insulation resistance is satisfactory.					N/A				N/A			
	30	Automatic electrical protective devices operate within permitted limits.					N/A							
	31	Automatic electrical protective devices are set correctly (auto re-set not possible).					N/A							
	32	Points to point connections are all correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	33	Earth continuity is satisfactory (e.g. Connections are tight, conductors are of sufficient cross-section) for non-galvanically isolated circuits.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	34	Earth connections maintain the integrity of the type of protection.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	35	Intrinsically safe circuit earthing and insulation resistance is satisfactory.	N/A	N/A	N/A	N/A					N/A			

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											




	36	Separation is maintained between intrinsically safe and non-intrinsically safe circuits in common distribution boxes or relay cubicles.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	37	As applicable, short circuit protection of the power supply is in accordance with documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	38	Special conditions of use (if applicable) are complied with.												
	39	Cables/Cores not in use are correctly terminated.									N/A			
	40	Obstructions adjacent to flameproof flanged joints are in accordance with IEC 60079-14.			N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	41	Variable voltage / frequency installation in accordance with documentation.					N/A	N/A	N/A	N/A	N/A			
	42	No evidence of leakage of filling material.	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A			
	43	Protective liquid is between minimum and maximum permissible levels.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	44	Protective liquid is compliant with IEC 60079-6 clause 4.2.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	45	No sign of deterioration of protective liquid by dust or humidity.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	46	No evidence of loosening of external fasteners.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	47	No evidence of loss of protective liquid.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	48	No exposure of encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure in adhesion or softening.	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A			
	49	Protective gas inlet temperature is below maximum specified.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	50	Ducts, pipes and enclosures are in good condition.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	51	Protective gas is substantially free from contaminants.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	52	Protective gas pressure and/or flow is adequate.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	53	Pressure and/or flow indicators, alarms and interlocks function correctly.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	54	Conditions of spark and practical barriers of ducts for exhausting the gas in hazardous area are satisfied.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
C - EN	55	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors.												

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
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V	56	No undue accumulation of dust and dirt or humidity.												
	57	Electrical installation is clean and dry.										N/A		
COMMENTS:														
VALIDATION ROLES		SUB-CONTRACTOR	CONTRACTOR		TPI				COMPANY					
NAME														
SIGNATURE														
POSITION														
DATE														

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)	 
	Construction	
	Hazardous Area Ex Equipment Inspection Checklist	
A-ITR-Ex-021		




TASK NO.:	T-00193-1372	PHASE:	Construction												
SYSTEM NO.:	ISND-627-30	SYSTEM DESCRIPTION:	POWER GENERATION, DISTRIBUTION SYSTEM												
SUBSYSTEM NO.:	ISND-627-30-10	SUBSYSTEM DESCRIPTION:	Ex Equipment Certification												
FACILITY:	ISND-WHP-S007	AREA:	S01 - MAIN DECK												
TAG NO.:	627-30-DB-02-6B-SKT1-JB-Ex	TAG DESCRIPTION:	Junction Box												
APPLICABLE PROCEDURE:	YPS1-2-25-0001	ACCEPTANCE CRITERIA:	YPS1-2-05-0001												
AREA DATA		EQUIPMENT DETAILS													
Location:		Ex Certificate:										Cert. Body:			
Layout Drawing:	S007-2-67-0005-001	Model:										Gas Group:			
Zone:		Serial Number:										Temp Class:			
Gas Group:		Ex Concept:										IP Rating:			
Temp Class:		Manufacturer:										Product Date:			
	No.	Description	Ex de	Ex d	Ex e	Ex n	Ex i	Ex q	Ex o	Ex m	Ex p	OK	NA	PL	
A - EQUIPMENT	1	Equipment is appropriate to the EPL/Zone requirements of the location.													
	2	Equipment group correct.					N/A								
	3	Equipment temperature class correct.													
	4	Circuit and/or equipment category and group correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	5	Equipment identification is available and correct.													
	6	Equipment installed is that specified in the documentation – fixed equipment only.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	7	Enclosure, glass to-metal sealing gaskets and/or compounds are satisfactory.						N/A		N/A					
	8	There are no unauthorized modifications.													
	9	Lamp rating, type and position are correct.					N/A	N/A	N/A	N/A					
	10	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in accordance with the certification requirements and securely earthed where required.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	11	Bolts, cable glands and MCTs (direct and indirect) and blanking elements are of the correct type and are complete and properly torqued.					N/A				N/A				
	12	Flange faces are clean and undamaged and gaskets, if any, are satisfactory.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	13	Flange gap dimensions are within maximal values permitted.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	14	Electrical connections are tight and properly torqued									N/A				

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											




B - I NS TA LL AT IO N	15	Condition of enclosure gaskets is satisfactory.		N/A			N/A				N/A			
	16	Enclosed-break and hermetically sealed devices are undamaged.	N/A	N/A	N/A		N/A				N/A			
	17	Restricted breathing enclosure is satisfactory.	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A			
	18	Motor fans have sufficient clearance to enclosure and/ or covers.					N/A	N/A	N/A	N/A	N/A			
	19	Breathing and draining devices are satisfactory.					N/A			N/A	N/A			
	20	Printed circuit boards are clean and undamaged.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	21	Type of cable is appropriate and installed in accordance with documentation.												
	22	Cable screens are earthed in accordance with the documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	23	There is no obvious damage to cables.												
	24	Sealing of trunking, ducts, pipes and/ or conduits is satisfactory.									N/A			
	25	Stopping boxes and cable boxes are correctly filled.			N/A	N/A	N/A				N/A			
	26	Integrity of conduit system and interface with mixed system is maintained.					N/A				N/A			
	27	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section).					N/A							
	28	Fault loop impedance (TN systems) or earthing resistance is satisfactory.					N/A							
	29	Insulation resistance is satisfactory.					N/A				N/A			
	30	Automatic electrical protective devices operate within permitted limits.					N/A							
	31	Automatic electrical protective devices are set correctly (auto re-set not possible).					N/A							
	32	Points to point connections are all correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	33	Earth continuity is satisfactory (e.g. Connections are tight, conductors are of sufficient cross-section) for non-galvanically isolated circuits.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	34	Earth connections maintain the integrity of the type of protection.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	35	Intrinsically safe circuit earthing and insulation resistance is satisfactory.	N/A	N/A	N/A	N/A					N/A			

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
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	36	Separation is maintained between intrinsically safe and non-intrinsically safe circuits in common distribution boxes or relay cubicles.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	37	As applicable, short circuit protection of the power supply is in accordance with documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	38	Special conditions of use (if applicable) are complied with.												
	39	Cables/Cores not in use are correctly terminated.									N/A			
	40	Obstructions adjacent to flameproof flanged joints are in accordance with IEC 60079-14.			N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	41	Variable voltage / frequency installation in accordance with documentation.					N/A	N/A	N/A	N/A	N/A			
	42	No evidence of leakage of filling material.	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A			
	43	Protective liquid is between minimum and maximum permissible levels.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	44	Protective liquid is compliant with IEC 60079-6 clause 4.2.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	45	No sign of deterioration of protective liquid by dust or humidity.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	46	No evidence of loosening of external fasteners.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	47	No evidence of loss of protective liquid.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	48	No exposure of encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure in adhesion or softening.	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A			
	49	Protective gas inlet temperature is below maximum specified.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	50	Ducts, pipes and enclosures are in good condition.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	51	Protective gas is substantially free from contaminants.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	52	Protective gas pressure and/or flow is adequate.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	53	Pressure and/or flow indicators, alarms and interlocks function correctly.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	54	Conditions of spark and practical barriers of ducts for exhausting the gas in hazardous area are satisfied.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
C - EN	55	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors.												

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
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V	56	No undue accumulation of dust and dirt or humidity.												
	57	Electrical installation is clean and dry.										N/A		
COMMENTS:														
VALIDATION ROLES		SUB-CONTRACTOR	CONTRACTOR		TPI				COMPANY					
NAME														
SIGNATURE														
POSITION														
DATE														

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)	 
	Construction	
	Hazardous Area Ex Equipment Inspection Checklist	
A-ITR-Ex-021		




TASK NO.:	T-00193-1592	PHASE:	Construction												
SYSTEM NO.:	ISND-627-30	SYSTEM DESCRIPTION:	POWER GENERATION, DISTRIBUTION SYSTEM												
SUBSYSTEM NO.:	ISND-627-30-10	SUBSYSTEM DESCRIPTION:	Ex Equipment Certification												
FACILITY:	ISND-WHP-S007	AREA:	S02 - MEZZANINE DECK												
TAG NO.:	627-30-DB-02-6B-SKT2-Ex	TAG DESCRIPTION:	Socket Outlet												
APPLICABLE PROCEDURE:	YPS1-2-25-0001	ACCEPTANCE CRITERIA:	YPS1-2-05-0001												
AREA DATA		EQUIPMENT DETAILS													
Location:		Ex Certificate:										Cert. Body:			
Layout Drawing:	S007-2-67-0004-001	Model:										Gas Group:			
Zone:		Serial Number:										Temp Class:			
Gas Group:		Ex Concept:										IP Rating:			
Temp Class:		Manufacturer:										Product Date:			
	No.	Description	Ex de	Ex d	Ex e	Ex n	Ex i	Ex q	Ex o	Ex m	Ex p	OK	NA	PL	
A - EQUIPMENT	1	Equipment is appropriate to the EPL/Zone requirements of the location.													
	2	Equipment group correct.					N/A								
	3	Equipment temperature class correct.													
	4	Circuit and/or equipment category and group correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	5	Equipment identification is available and correct.													
	6	Equipment installed is that specified in the documentation – fixed equipment only.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	7	Enclosure, glass to-metal sealing gaskets and/or compounds are satisfactory.						N/A		N/A					
	8	There are no unauthorized modifications.													
	9	Lamp rating, type and position are correct.					N/A	N/A	N/A	N/A					
	10	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in accordance with the certification requirements and securely earthed where required.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	11	Bolts, cable glands and MCTs (direct and indirect) and blanking elements are of the correct type and are complete and properly torqued.					N/A				N/A				
	12	Flange faces are clean and undamaged and gaskets, if any, are satisfactory.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	13	Flange gap dimensions are within maximal values permitted.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	14	Electrical connections are tight and properly torqued									N/A				

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											

B - I NS TA LL AT IO N	15	Condition of enclosure gaskets is satisfactory.		N/A			N/A				N/A			
	16	Enclosed-break and hermetically sealed devices are undamaged.	N/A	N/A	N/A		N/A				N/A			
	17	Restricted breathing enclosure is satisfactory.	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A			
	18	Motor fans have sufficient clearance to enclosure and/ or covers.					N/A	N/A	N/A	N/A	N/A			
	19	Breathing and draining devices are satisfactory.					N/A			N/A	N/A			
	20	Printed circuit boards are clean and undamaged.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	21	Type of cable is appropriate and installed in accordance with documentation.												
	22	Cable screens are earthed in accordance with the documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	23	There is no obvious damage to cables.												
	24	Sealing of trunking, ducts, pipes and/ or conduits is satisfactory.									N/A			
	25	Stopping boxes and cable boxes are correctly filled.			N/A	N/A	N/A				N/A			
	26	Integrity of conduit system and interface with mixed system is maintained.					N/A				N/A			
	27	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section).					N/A							
	28	Fault loop impedance (TN systems) or earthing resistance is satisfactory.					N/A							
	29	Insulation resistance is satisfactory.					N/A				N/A			
	30	Automatic electrical protective devices operate within permitted limits.					N/A							
	31	Automatic electrical protective devices are set correctly (auto re-set not possible).					N/A							
	32	Points to point connections are all correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	33	Earth continuity is satisfactory (e.g. Connections are tight, conductors are of sufficient cross-section) for non-galvanically isolated circuits.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	34	Earth connections maintain the integrity of the type of protection.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	35	Intrinsically safe circuit earthing and insulation resistance is satisfactory.	N/A	N/A	N/A	N/A					N/A			

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											




	36	Separation is maintained between intrinsically safe and non-intrinsically safe circuits in common distribution boxes or relay cubicles.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	37	As applicable, short circuit protection of the power supply is in accordance with documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	38	Special conditions of use (if applicable) are complied with.												
	39	Cables/Cores not in use are correctly terminated.									N/A			
	40	Obstructions adjacent to flameproof flanged joints are in accordance with IEC 60079-14.			N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	41	Variable voltage / frequency installation in accordance with documentation.					N/A	N/A	N/A	N/A	N/A			
	42	No evidence of leakage of filling material.	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A			
	43	Protective liquid is between minimum and maximum permissible levels.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	44	Protective liquid is compliant with IEC 60079-6 clause 4.2.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	45	No sign of deterioration of protective liquid by dust or humidity.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	46	No evidence of loosening of external fasteners.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	47	No evidence of loss of protective liquid.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	48	No exposure of encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure in adhesion or softening.	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A			
	49	Protective gas inlet temperature is below maximum specified.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	50	Ducts, pipes and enclosures are in good condition.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	51	Protective gas is substantially free from contaminants.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	52	Protective gas pressure and/or flow is adequate.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	53	Pressure and/or flow indicators, alarms and interlocks function correctly.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	54	Conditions of spark and practical barriers of ducts for exhausting the gas in hazardous area are satisfied.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
C - EN	55	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors.												

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											




V	56	No undue accumulation of dust and dirt or humidity.												
	57	Electrical installation is clean and dry.									N/A			

COMMENTS:




VALIDATION ROLES	SUB-CONTRACTOR	CONTRACTOR	TPI	COMPANY
NAME				
SIGNATURE				
POSITION				
DATE				

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)	 
	Construction	
	Hazardous Area Ex Equipment Inspection Checklist	
A-ITR-Ex-021		




TASK NO.:	T-00193-1656	PHASE:	Construction												
SYSTEM NO.:	ISND-627-30	SYSTEM DESCRIPTION:	POWER GENERATION, DISTRIBUTION SYSTEM												
SUBSYSTEM NO.:	ISND-627-30-10	SUBSYSTEM DESCRIPTION:	Ex Equipment Certification												
FACILITY:	ISND-WHP-S007	AREA:	S02 - MEZZANINE DECK												
TAG NO.:	627-30-DB-02-6B-SKT2-JB-Ex	TAG DESCRIPTION:	Junction Box												
APPLICABLE PROCEDURE:	YPS1-2-25-0001	ACCEPTANCE CRITERIA:	YPS1-2-05-0001												
AREA DATA		EQUIPMENT DETAILS													
Location:		Ex Certificate:										Cert. Body:			
Layout Drawing:	S007-2-67-0004-001	Model:										Gas Group:			
Zone:		Serial Number:										Temp Class:			
Gas Group:		Ex Concept:										IP Rating:			
Temp Class:		Manufacturer:										Product Date:			
	No.	Description	Ex de	Ex d	Ex e	Ex n	Ex i	Ex q	Ex o	Ex m	Ex p	OK	NA	PL	
A - EQUIPMENT	1	Equipment is appropriate to the EPL/Zone requirements of the location.													
	2	Equipment group correct.					N/A								
	3	Equipment temperature class correct.													
	4	Circuit and/or equipment category and group correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	5	Equipment identification is available and correct.													
	6	Equipment installed is that specified in the documentation – fixed equipment only.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	7	Enclosure, glass to-metal sealing gaskets and/or compounds are satisfactory.						N/A		N/A					
	8	There are no unauthorized modifications.													
	9	Lamp rating, type and position are correct.					N/A	N/A	N/A	N/A					
	10	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in accordance with the certification requirements and securely earthed where required.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	11	Bolts, cable glands and MCTs (direct and indirect) and blanking elements are of the correct type and are complete and properly torqued.					N/A				N/A				
	12	Flange faces are clean and undamaged and gaskets, if any, are satisfactory.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	13	Flange gap dimensions are within maximal values permitted.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	14	Electrical connections are tight and properly torqued									N/A				

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											




B - I NS T A L L A T I O N	15	Condition of enclosure gaskets is satisfactory.		N/A			N/A				N/A			
	16	Enclosed-break and hermetically sealed devices are undamaged.	N/A	N/A	N/A		N/A				N/A			
	17	Restricted breathing enclosure is satisfactory.	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A			
	18	Motor fans have sufficient clearance to enclosure and/ or covers.					N/A	N/A	N/A	N/A	N/A			
	19	Breathing and draining devices are satisfactory.					N/A			N/A	N/A			
	20	Printed circuit boards are clean and undamaged.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	21	Type of cable is appropriate and installed in accordance with documentation.												
	22	Cable screens are earthed in accordance with the documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	23	There is no obvious damage to cables.												
	24	Sealing of trunking, ducts, pipes and/ or conduits is satisfactory.									N/A			
	25	Stopping boxes and cable boxes are correctly filled.			N/A	N/A	N/A				N/A			
	26	Integrity of conduit system and interface with mixed system is maintained.					N/A				N/A			
	27	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section).					N/A							
	28	Fault loop impedance (TN systems) or earthing resistance is satisfactory.					N/A							
	29	Insulation resistance is satisfactory.					N/A				N/A			
	30	Automatic electrical protective devices operate within permitted limits.					N/A							
	31	Automatic electrical protective devices are set correctly (auto re-set not possible).					N/A							
	32	Points to point connections are all correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	33	Earth continuity is satisfactory (e.g. Connections are tight, conductors are of sufficient cross-section) for non-galvanically isolated circuits.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	34	Earth connections maintain the integrity of the type of protection.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	35	Intrinsically safe circuit earthing and insulation resistance is satisfactory.	N/A	N/A	N/A	N/A					N/A			

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
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	36	Separation is maintained between intrinsically safe and non-intrinsically safe circuits in common distribution boxes or relay cubicles.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	37	As applicable, short circuit protection of the power supply is in accordance with documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	38	Special conditions of use (if applicable) are complied with.												
	39	Cables/Cores not in use are correctly terminated.									N/A			
	40	Obstructions adjacent to flameproof flanged joints are in accordance with IEC 60079-14.			N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	41	Variable voltage / frequency installation in accordance with documentation.					N/A	N/A	N/A	N/A	N/A			
	42	No evidence of leakage of filling material.	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A			
	43	Protective liquid is between minimum and maximum permissible levels.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	44	Protective liquid is compliant with IEC 60079-6 clause 4.2.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	45	No sign of deterioration of protective liquid by dust or humidity.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	46	No evidence of loosening of external fasteners.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	47	No evidence of loss of protective liquid.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	48	No exposure of encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure in adhesion or softening.	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A			
	49	Protective gas inlet temperature is below maximum specified.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	50	Ducts, pipes and enclosures are in good condition.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	51	Protective gas is substantially free from contaminants.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	52	Protective gas pressure and/or flow is adequate.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	53	Pressure and/or flow indicators, alarms and interlocks function correctly.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	54	Conditions of spark and practical barriers of ducts for exhausting the gas in hazardous area are satisfied.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
C - EN	55	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors.												

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
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V	56	No undue accumulation of dust and dirt or humidity.												
	57	Electrical installation is clean and dry.										N/A		
COMMENTS:														
VALIDATION ROLES		SUB-CONTRACTOR	CONTRACTOR		TPI				COMPANY					
NAME														
SIGNATURE														
POSITION														
DATE														

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)	 
	Construction	
	Hazardous Area Ex Equipment Inspection Checklist	
A-ITR-Ex-021		




TASK NO.:	T-00193-1581	PHASE:	Construction												
SYSTEM NO.:	ISND-627-30	SYSTEM DESCRIPTION:	POWER GENERATION, DISTRIBUTION SYSTEM												
SUBSYSTEM NO.:	ISND-627-30-10	SUBSYSTEM DESCRIPTION:	Ex Equipment Certification												
FACILITY:	ISND-WHP-S007	AREA:	S03 - CELLAR DECK												
TAG NO.:	627-30-DB-02-6B-SKT3-Ex	TAG DESCRIPTION:	Socket Outlet												
APPLICABLE PROCEDURE:	YPS1-2-25-0001	ACCEPTANCE CRITERIA:	YPS1-2-05-0001												
AREA DATA		EQUIPMENT DETAILS													
Location:		Ex Certificate:										Cert. Body:			
Layout Drawing:	S007-2-67-0003-001	Model:										Gas Group:			
Zone:		Serial Number:										Temp Class:			
Gas Group:		Ex Concept:										IP Rating:			
Temp Class:		Manufacturer:										Product Date:			
	No.	Description	Ex de	Ex d	Ex e	Ex n	Ex i	Ex q	Ex o	Ex m	Ex p	OK	NA	PL	
A - EQUIPMENT	1	Equipment is appropriate to the EPL/Zone requirements of the location.													
	2	Equipment group correct.					N/A								
	3	Equipment temperature class correct.													
	4	Circuit and/or equipment category and group correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	5	Equipment identification is available and correct.													
	6	Equipment installed is that specified in the documentation – fixed equipment only.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	7	Enclosure, glass to-metal sealing gaskets and/or compounds are satisfactory.						N/A		N/A					
	8	There are no unauthorized modifications.													
	9	Lamp rating, type and position are correct.					N/A	N/A	N/A	N/A					
	10	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in accordance with the certification requirements and securely earthed where required.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	11	Bolts, cable glands and MCTs (direct and indirect) and blanking elements are of the correct type and are complete and properly torqued.					N/A				N/A				
	12	Flange faces are clean and undamaged and gaskets, if any, are satisfactory.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	13	Flange gap dimensions are within maximal values permitted.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	14	Electrical connections are tight and properly torqued									N/A				

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											

B - I NS TA LL AT IO N	15	Condition of enclosure gaskets is satisfactory.		N/A			N/A				N/A			
	16	Enclosed-break and hermetically sealed devices are undamaged.	N/A	N/A	N/A		N/A				N/A			
	17	Restricted breathing enclosure is satisfactory.	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A			
	18	Motor fans have sufficient clearance to enclosure and/ or covers.					N/A	N/A	N/A	N/A	N/A			
	19	Breathing and draining devices are satisfactory.					N/A			N/A	N/A			
	20	Printed circuit boards are clean and undamaged.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	21	Type of cable is appropriate and installed in accordance with documentation.												
	22	Cable screens are earthed in accordance with the documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	23	There is no obvious damage to cables.												
	24	Sealing of trunking, ducts, pipes and/ or conduits is satisfactory.									N/A			
	25	Stopping boxes and cable boxes are correctly filled.			N/A	N/A	N/A				N/A			
	26	Integrity of conduit system and interface with mixed system is maintained.					N/A				N/A			
	27	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section).					N/A							
	28	Fault loop impedance (TN systems) or earthing resistance is satisfactory.					N/A							
	29	Insulation resistance is satisfactory.					N/A				N/A			
	30	Automatic electrical protective devices operate within permitted limits.					N/A							
	31	Automatic electrical protective devices are set correctly (auto re-set not possible).					N/A							
	32	Points to point connections are all correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	33	Earth continuity is satisfactory (e.g. Connections are tight, conductors are of sufficient cross-section) for non-galvanically isolated circuits.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	34	Earth connections maintain the integrity of the type of protection.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	35	Intrinsically safe circuit earthing and insulation resistance is satisfactory.	N/A	N/A	N/A	N/A					N/A			

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
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	36	Separation is maintained between intrinsically safe and non-intrinsically safe circuits in common distribution boxes or relay cubicles.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	37	As applicable, short circuit protection of the power supply is in accordance with documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	38	Special conditions of use (if applicable) are complied with.												
	39	Cables/Cores not in use are correctly terminated.									N/A			
	40	Obstructions adjacent to flameproof flanged joints are in accordance with IEC 60079-14.			N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	41	Variable voltage / frequency installation in accordance with documentation.					N/A	N/A	N/A	N/A	N/A			
	42	No evidence of leakage of filling material.	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A			
	43	Protective liquid is between minimum and maximum permissible levels.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	44	Protective liquid is compliant with IEC 60079-6 clause 4.2.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	45	No sign of deterioration of protective liquid by dust or humidity.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	46	No evidence of loosening of external fasteners.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	47	No evidence of loss of protective liquid.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	48	No exposure of encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure in adhesion or softening.	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A			
	49	Protective gas inlet temperature is below maximum specified.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	50	Ducts, pipes and enclosures are in good condition.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	51	Protective gas is substantially free from contaminants.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	52	Protective gas pressure and/or flow is adequate.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	53	Pressure and/or flow indicators, alarms and interlocks function correctly.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	54	Conditions of spark and practical barriers of ducts for exhausting the gas in hazardous area are satisfied.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
C - EN	55	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors.												

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
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V	56	No undue accumulation of dust and dirt or humidity.												
	57	Electrical installation is clean and dry.									N/A			

COMMENTS:




VALIDATION ROLES	SUB-CONTRACTOR	CONTRACTOR	TPI	COMPANY
NAME				
SIGNATURE				
POSITION				
DATE				

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)	 
	Construction	
	Hazardous Area Ex Equipment Inspection Checklist	
A-ITR-Ex-021		




TASK NO.:	T-00193-1673	PHASE:	Construction												
SYSTEM NO.:	ISND-627-30	SYSTEM DESCRIPTION:	POWER GENERATION, DISTRIBUTION SYSTEM												
SUBSYSTEM NO.:	ISND-627-30-10	SUBSYSTEM DESCRIPTION:	Ex Equipment Certification												
FACILITY:	ISND-WHP-S007	AREA:	S03 - CELLAR DECK												
TAG NO.:	627-30-DB-02-6B-SKT3-JB-Ex	TAG DESCRIPTION:	Junction Box												
APPLICABLE PROCEDURE:	YPS1-2-25-0001	ACCEPTANCE CRITERIA:	YPS1-2-05-0001												
AREA DATA		EQUIPMENT DETAILS													
Location:		Ex Certificate:										Cert. Body:			
Layout Drawing:	S007-2-67-0003-001	Model:										Gas Group:			
Zone:		Serial Number:										Temp Class:			
Gas Group:		Ex Concept:										IP Rating:			
Temp Class:		Manufacturer:										Product Date:			
	No.	Description	Ex de	Ex d	Ex e	Ex n	Ex i	Ex q	Ex o	Ex m	Ex p	OK	NA	PL	
A - EQUIPMENT	1	Equipment is appropriate to the EPL/Zone requirements of the location.													
	2	Equipment group correct.					N/A								
	3	Equipment temperature class correct.													
	4	Circuit and/or equipment category and group correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	5	Equipment identification is available and correct.													
	6	Equipment installed is that specified in the documentation – fixed equipment only.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	7	Enclosure, glass to-metal sealing gaskets and/or compounds are satisfactory.						N/A		N/A					
	8	There are no unauthorized modifications.													
	9	Lamp rating, type and position are correct.					N/A	N/A	N/A	N/A					
	10	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in accordance with the certification requirements and securely earthed where required.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	11	Bolts, cable glands and MCTs (direct and indirect) and blanking elements are of the correct type and are complete and properly torqued.					N/A				N/A				
	12	Flange faces are clean and undamaged and gaskets, if any, are satisfactory.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	13	Flange gap dimensions are within maximal values permitted.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	14	Electrical connections are tight and properly torqued									N/A				

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											




B - I NS T A L L A T I O N	15	Condition of enclosure gaskets is satisfactory.		N/A			N/A				N/A			
	16	Enclosed-break and hermetically sealed devices are undamaged.	N/A	N/A	N/A		N/A				N/A			
	17	Restricted breathing enclosure is satisfactory.	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A			
	18	Motor fans have sufficient clearance to enclosure and/ or covers.					N/A	N/A	N/A	N/A	N/A			
	19	Breathing and draining devices are satisfactory.					N/A			N/A	N/A			
	20	Printed circuit boards are clean and undamaged.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	21	Type of cable is appropriate and installed in accordance with documentation.												
	22	Cable screens are earthed in accordance with the documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	23	There is no obvious damage to cables.												
	24	Sealing of trunking, ducts, pipes and/ or conduits is satisfactory.									N/A			
	25	Stopping boxes and cable boxes are correctly filled.			N/A	N/A	N/A				N/A			
	26	Integrity of conduit system and interface with mixed system is maintained.					N/A				N/A			
	27	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section).					N/A							
	28	Fault loop impedance (TN systems) or earthing resistance is satisfactory.					N/A							
	29	Insulation resistance is satisfactory.					N/A				N/A			
	30	Automatic electrical protective devices operate within permitted limits.					N/A							
	31	Automatic electrical protective devices are set correctly (auto re-set not possible).					N/A							
	32	Points to point connections are all correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	33	Earth continuity is satisfactory (e.g. Connections are tight, conductors are of sufficient cross-section) for non-galvanically isolated circuits.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	34	Earth connections maintain the integrity of the type of protection.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	35	Intrinsically safe circuit earthing and insulation resistance is satisfactory.	N/A	N/A	N/A	N/A					N/A			

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											




	36	Separation is maintained between intrinsically safe and non-intrinsically safe circuits in common distribution boxes or relay cubicles.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	37	As applicable, short circuit protection of the power supply is in accordance with documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	38	Special conditions of use (if applicable) are complied with.												
	39	Cables/Cores not in use are correctly terminated.									N/A			
	40	Obstructions adjacent to flameproof flanged joints are in accordance with IEC 60079-14.			N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	41	Variable voltage / frequency installation in accordance with documentation.					N/A	N/A	N/A	N/A	N/A			
	42	No evidence of leakage of filling material.	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A			
	43	Protective liquid is between minimum and maximum permissible levels.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	44	Protective liquid is compliant with IEC 60079-6 clause 4.2.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	45	No sign of deterioration of protective liquid by dust or humidity.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	46	No evidence of loosening of external fasteners.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	47	No evidence of loss of protective liquid.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	48	No exposure of encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure in adhesion or softening.	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A			
	49	Protective gas inlet temperature is below maximum specified.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	50	Ducts, pipes and enclosures are in good condition.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	51	Protective gas is substantially free from contaminants.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	52	Protective gas pressure and/or flow is adequate.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	53	Pressure and/or flow indicators, alarms and interlocks function correctly.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	54	Conditions of spark and practical barriers of ducts for exhausting the gas in hazardous area are satisfied.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
C - EN	55	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors.												

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											




V	56	No undue accumulation of dust and dirt or humidity.												
	57	Electrical installation is clean and dry.									N/A			
COMMENTS:														
VALIDATION ROLES		SUB-CONTRACTOR	CONTRACTOR		TPI				COMPANY					
NAME														
SIGNATURE														
POSITION														
DATE														

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)	 
	Construction	
	Hazardous Area Ex Equipment Inspection Checklist	
A-ITR-Ex-021		




TASK NO.:	T-00193-1407	PHASE:	Construction												
SYSTEM NO.:	ISND-627-30	SYSTEM DESCRIPTION:	POWER GENERATION, DISTRIBUTION SYSTEM												
SUBSYSTEM NO.:	ISND-627-30-10	SUBSYSTEM DESCRIPTION:	Ex Equipment Certification												
FACILITY:	ISND-WHP-S007	AREA:	S03 - CELLAR DECK												
TAG NO.:	627-30-DB-02-6B-SKT4-Ex	TAG DESCRIPTION:	Socket Outlet												
APPLICABLE PROCEDURE:	YPS1-2-25-0001	ACCEPTANCE CRITERIA:	YPS1-2-05-0001												
AREA DATA		EQUIPMENT DETAILS													
Location:		Ex Certificate:										Cert. Body:			
Layout Drawing:	S007-2-67-0003-001	Model:										Gas Group:			
Zone:		Serial Number:										Temp Class:			
Gas Group:		Ex Concept:										IP Rating:			
Temp Class:		Manufacturer:										Product Date:			
	No.	Description	Ex de	Ex d	Ex e	Ex n	Ex i	Ex q	Ex o	Ex m	Ex p	OK	NA	PL	
A - EQUIPMENT	1	Equipment is appropriate to the EPL/Zone requirements of the location.													
	2	Equipment group correct.					N/A								
	3	Equipment temperature class correct.													
	4	Circuit and/or equipment category and group correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	5	Equipment identification is available and correct.													
	6	Equipment installed is that specified in the documentation – fixed equipment only.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	7	Enclosure, glass to-metal sealing gaskets and/or compounds are satisfactory.						N/A		N/A					
	8	There are no unauthorized modifications.													
	9	Lamp rating, type and position are correct.					N/A	N/A	N/A	N/A					
	10	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in accordance with the certification requirements and securely earthed where required.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	11	Bolts, cable glands and MCTs (direct and indirect) and blanking elements are of the correct type and are complete and properly torqued.					N/A				N/A				
	12	Flange faces are clean and undamaged and gaskets, if any, are satisfactory.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	13	Flange gap dimensions are within maximal values permitted.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	14	Electrical connections are tight and properly torqued									N/A				

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
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B - I NS TA LL AT IO N	15	Condition of enclosure gaskets is satisfactory.		N/A			N/A				N/A			
	16	Enclosed-break and hermetically sealed devices are undamaged.	N/A	N/A	N/A		N/A				N/A			
	17	Restricted breathing enclosure is satisfactory.	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A			
	18	Motor fans have sufficient clearance to enclosure and/ or covers.					N/A	N/A	N/A	N/A	N/A			
	19	Breathing and draining devices are satisfactory.					N/A			N/A	N/A			
	20	Printed circuit boards are clean and undamaged.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	21	Type of cable is appropriate and installed in accordance with documentation.												
	22	Cable screens are earthed in accordance with the documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	23	There is no obvious damage to cables.												
	24	Sealing of trunking, ducts, pipes and/ or conduits is satisfactory.									N/A			
	25	Stopping boxes and cable boxes are correctly filled.			N/A	N/A	N/A				N/A			
	26	Integrity of conduit system and interface with mixed system is maintained.					N/A				N/A			
	27	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section).					N/A							
	28	Fault loop impedance (TN systems) or earthing resistance is satisfactory.					N/A							
	29	Insulation resistance is satisfactory.					N/A				N/A			
	30	Automatic electrical protective devices operate within permitted limits.					N/A							
	31	Automatic electrical protective devices are set correctly (auto re-set not possible).					N/A							
	32	Points to point connections are all correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	33	Earth continuity is satisfactory (e.g. Connections are tight, conductors are of sufficient cross-section) for non-galvanically isolated circuits.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	34	Earth connections maintain the integrity of the type of protection.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	35	Intrinsically safe circuit earthing and insulation resistance is satisfactory.	N/A	N/A	N/A	N/A					N/A			

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
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	36	Separation is maintained between intrinsically safe and non-intrinsically safe circuits in common distribution boxes or relay cubicles.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	37	As applicable, short circuit protection of the power supply is in accordance with documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	38	Special conditions of use (if applicable) are complied with.												
	39	Cables/Cores not in use are correctly terminated.									N/A			
	40	Obstructions adjacent to flameproof flanged joints are in accordance with IEC 60079-14.			N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	41	Variable voltage / frequency installation in accordance with documentation.					N/A	N/A	N/A	N/A	N/A			
	42	No evidence of leakage of filling material.	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A			
	43	Protective liquid is between minimum and maximum permissible levels.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	44	Protective liquid is compliant with IEC 60079-6 clause 4.2.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	45	No sign of deterioration of protective liquid by dust or humidity.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	46	No evidence of loosening of external fasteners.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	47	No evidence of loss of protective liquid.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	48	No exposure of encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure in adhesion or softening.	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A			
	49	Protective gas inlet temperature is below maximum specified.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	50	Ducts, pipes and enclosures are in good condition.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	51	Protective gas is substantially free from contaminants.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	52	Protective gas pressure and/or flow is adequate.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	53	Pressure and/or flow indicators, alarms and interlocks function correctly.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	54	Conditions of spark and practical barriers of ducts for exhausting the gas in hazardous area are satisfied.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
C - EN	55	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors.												

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
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V	56	No undue accumulation of dust and dirt or humidity.												
	57	Electrical installation is clean and dry.									N/A			

COMMENTS:




VALIDATION ROLES	SUB-CONTRACTOR	CONTRACTOR	TPI	COMPANY
NAME				
SIGNATURE				
POSITION				
DATE				

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)	 
	Construction	
	Hazardous Area Ex Equipment Inspection Checklist	
A-ITR-Ex-021		




TASK NO.:	T-00193-1658	PHASE:	Construction												
SYSTEM NO.:	ISND-627-30	SYSTEM DESCRIPTION:	POWER GENERATION, DISTRIBUTION SYSTEM												
SUBSYSTEM NO.:	ISND-627-30-10	SUBSYSTEM DESCRIPTION:	Ex Equipment Certification												
FACILITY:	ISND-WHP-S007	AREA:	S03 - CELLAR DECK												
TAG NO.:	627-30-DB-02-6B-SKT4-JB-Ex	TAG DESCRIPTION:	Junction Box												
APPLICABLE PROCEDURE:	YPS1-2-25-0001	ACCEPTANCE CRITERIA:	YPS1-2-05-0001												
AREA DATA		EQUIPMENT DETAILS													
Location:		Ex Certificate:										Cert. Body:			
Layout Drawing:	S007-2-67-0003-001	Model:										Gas Group:			
Zone:		Serial Number:										Temp Class:			
Gas Group:		Ex Concept:										IP Rating:			
Temp Class:		Manufacturer:										Product Date:			
	No.	Description	Ex de	Ex d	Ex e	Ex n	Ex i	Ex q	Ex o	Ex m	Ex p	OK	NA	PL	
A - EQUIPMENT	1	Equipment is appropriate to the EPL/Zone requirements of the location.													
	2	Equipment group correct.					N/A								
	3	Equipment temperature class correct.													
	4	Circuit and/or equipment category and group correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	5	Equipment identification is available and correct.													
	6	Equipment installed is that specified in the documentation – fixed equipment only.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	7	Enclosure, glass to-metal sealing gaskets and/or compounds are satisfactory.						N/A		N/A					
	8	There are no unauthorized modifications.													
	9	Lamp rating, type and position are correct.					N/A	N/A	N/A	N/A					
	10	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in accordance with the certification requirements and securely earthed where required.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	11	Bolts, cable glands and MCTs (direct and indirect) and blanking elements are of the correct type and are complete and properly torqued.					N/A				N/A				
	12	Flange faces are clean and undamaged and gaskets, if any, are satisfactory.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	13	Flange gap dimensions are within maximal values permitted.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	14	Electrical connections are tight and properly torqued									N/A				

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											




B - I NS TA LL AT IO N	15	Condition of enclosure gaskets is satisfactory.		N/A			N/A				N/A			
	16	Enclosed-break and hermetically sealed devices are undamaged.	N/A	N/A	N/A		N/A				N/A			
	17	Restricted breathing enclosure is satisfactory.	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A			
	18	Motor fans have sufficient clearance to enclosure and/ or covers.					N/A	N/A	N/A	N/A	N/A			
	19	Breathing and draining devices are satisfactory.					N/A			N/A	N/A			
	20	Printed circuit boards are clean and undamaged.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	21	Type of cable is appropriate and installed in accordance with documentation.												
	22	Cable screens are earthed in accordance with the documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	23	There is no obvious damage to cables.												
	24	Sealing of trunking, ducts, pipes and/ or conduits is satisfactory.									N/A			
	25	Stopping boxes and cable boxes are correctly filled.			N/A	N/A	N/A				N/A			
	26	Integrity of conduit system and interface with mixed system is maintained.					N/A				N/A			
	27	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section).					N/A							
	28	Fault loop impedance (TN systems) or earthing resistance is satisfactory.					N/A							
	29	Insulation resistance is satisfactory.					N/A				N/A			
	30	Automatic electrical protective devices operate within permitted limits.					N/A							
	31	Automatic electrical protective devices are set correctly (auto re-set not possible).					N/A							
	32	Points to point connections are all correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	33	Earth continuity is satisfactory (e.g. Connections are tight, conductors are of sufficient cross-section) for non-galvanically isolated circuits.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	34	Earth connections maintain the integrity of the type of protection.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	35	Intrinsically safe circuit earthing and insulation resistance is satisfactory.	N/A	N/A	N/A	N/A					N/A			

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
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	36	Separation is maintained between intrinsically safe and non-intrinsically safe circuits in common distribution boxes or relay cubicles.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	37	As applicable, short circuit protection of the power supply is in accordance with documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	38	Special conditions of use (if applicable) are complied with.												
	39	Cables/Cores not in use are correctly terminated.									N/A			
	40	Obstructions adjacent to flameproof flanged joints are in accordance with IEC 60079-14.			N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	41	Variable voltage / frequency installation in accordance with documentation.					N/A	N/A	N/A	N/A	N/A			
	42	No evidence of leakage of filling material.	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A			
	43	Protective liquid is between minimum and maximum permissible levels.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	44	Protective liquid is compliant with IEC 60079-6 clause 4.2.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	45	No sign of deterioration of protective liquid by dust or humidity.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	46	No evidence of loosening of external fasteners.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	47	No evidence of loss of protective liquid.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	48	No exposure of encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure in adhesion or softening.	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A			
	49	Protective gas inlet temperature is below maximum specified.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	50	Ducts, pipes and enclosures are in good condition.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	51	Protective gas is substantially free from contaminants.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	52	Protective gas pressure and/or flow is adequate.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	53	Pressure and/or flow indicators, alarms and interlocks function correctly.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	54	Conditions of spark and practical barriers of ducts for exhausting the gas in hazardous area are satisfied.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
C - EN	55	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors.												

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											




V	56	No undue accumulation of dust and dirt or humidity.												
	57	Electrical installation is clean and dry.										N/A		
COMMENTS:														
VALIDATION ROLES		SUB-CONTRACTOR	CONTRACTOR		TPI				COMPANY					
NAME														
SIGNATURE														
POSITION														
DATE														

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)	 
	Construction	
	Hazardous Area Ex Equipment Inspection Checklist	
A-ITR-Ex-021		




TASK NO.:	T-00193-1516	PHASE:	Construction												
SYSTEM NO.:	ISND-627-30	SYSTEM DESCRIPTION:	POWER GENERATION, DISTRIBUTION SYSTEM												
SUBSYSTEM NO.:	ISND-627-30-10	SUBSYSTEM DESCRIPTION:	Ex Equipment Certification												
FACILITY:	ISND-WHP-S007	AREA:	S01 - MAIN DECK												
TAG NO.:	627-30-DB-02-6Y-SKT3-Ex	TAG DESCRIPTION:	Socket Outlet												
APPLICABLE PROCEDURE:	YPS1-2-25-0001	ACCEPTANCE CRITERIA:	YPS1-2-05-0001												
AREA DATA		EQUIPMENT DETAILS													
Location:		Ex Certificate:										Cert. Body:			
Layout Drawing:	S007-2-67-0005-001	Model:										Gas Group:			
Zone:		Serial Number:										Temp Class:			
Gas Group:		Ex Concept:										IP Rating:			
Temp Class:		Manufacturer:										Product Date:			
	No.	Description	Ex de	Ex d	Ex e	Ex n	Ex i	Ex q	Ex o	Ex m	Ex p	OK	NA	PL	
A - EQUIPMENT	1	Equipment is appropriate to the EPL/Zone requirements of the location.													
	2	Equipment group correct.					N/A								
	3	Equipment temperature class correct.													
	4	Circuit and/or equipment category and group correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	5	Equipment identification is available and correct.													
	6	Equipment installed is that specified in the documentation – fixed equipment only.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	7	Enclosure, glass to-metal sealing gaskets and/or compounds are satisfactory.						N/A		N/A					
	8	There are no unauthorized modifications.													
	9	Lamp rating, type and position are correct.					N/A	N/A	N/A	N/A					
	10	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in accordance with the certification requirements and securely earthed where required.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	11	Bolts, cable glands and MCTs (direct and indirect) and blanking elements are of the correct type and are complete and properly torqued.					N/A				N/A				
	12	Flange faces are clean and undamaged and gaskets, if any, are satisfactory.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	13	Flange gap dimensions are within maximal values permitted.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	14	Electrical connections are tight and properly torqued									N/A				

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											




B - I NS TA LL AT IO N	15	Condition of enclosure gaskets is satisfactory.		N/A			N/A				N/A			
	16	Enclosed-break and hermetically sealed devices are undamaged.	N/A	N/A	N/A		N/A				N/A			
	17	Restricted breathing enclosure is satisfactory.	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A			
	18	Motor fans have sufficient clearance to enclosure and/ or covers.					N/A	N/A	N/A	N/A	N/A			
	19	Breathing and draining devices are satisfactory.					N/A			N/A	N/A			
	20	Printed circuit boards are clean and undamaged.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	21	Type of cable is appropriate and installed in accordance with documentation.												
	22	Cable screens are earthed in accordance with the documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	23	There is no obvious damage to cables.												
	24	Sealing of trunking, ducts, pipes and/ or conduits is satisfactory.									N/A			
	25	Stopping boxes and cable boxes are correctly filled.			N/A	N/A	N/A				N/A			
	26	Integrity of conduit system and interface with mixed system is maintained.					N/A				N/A			
	27	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section).					N/A							
	28	Fault loop impedance (TN systems) or earthing resistance is satisfactory.					N/A							
	29	Insulation resistance is satisfactory.					N/A				N/A			
	30	Automatic electrical protective devices operate within permitted limits.					N/A							
	31	Automatic electrical protective devices are set correctly (auto re-set not possible).					N/A							
	32	Points to point connections are all correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	33	Earth continuity is satisfactory (e.g. Connections are tight, conductors are of sufficient cross-section) for non-galvanically isolated circuits.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	34	Earth connections maintain the integrity of the type of protection.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	35	Intrinsically safe circuit earthing and insulation resistance is satisfactory.	N/A	N/A	N/A	N/A					N/A			

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											




	36	Separation is maintained between intrinsically safe and non-intrinsically safe circuits in common distribution boxes or relay cubicles.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	37	As applicable, short circuit protection of the power supply is in accordance with documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	38	Special conditions of use (if applicable) are complied with.												
	39	Cables/Cores not in use are correctly terminated.									N/A			
	40	Obstructions adjacent to flameproof flanged joints are in accordance with IEC 60079-14.			N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	41	Variable voltage / frequency installation in accordance with documentation.					N/A	N/A	N/A	N/A	N/A			
	42	No evidence of leakage of filling material.	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A			
	43	Protective liquid is between minimum and maximum permissible levels.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	44	Protective liquid is compliant with IEC 60079-6 clause 4.2.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	45	No sign of deterioration of protective liquid by dust or humidity.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	46	No evidence of loosening of external fasteners.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	47	No evidence of loss of protective liquid.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	48	No exposure of encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure in adhesion or softening.	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A			
	49	Protective gas inlet temperature is below maximum specified.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	50	Ducts, pipes and enclosures are in good condition.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	51	Protective gas is substantially free from contaminants.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	52	Protective gas pressure and/or flow is adequate.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	53	Pressure and/or flow indicators, alarms and interlocks function correctly.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	54	Conditions of spark and practical barriers of ducts for exhausting the gas in hazardous area are satisfied.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
C - EN	55	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors.												

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
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V	56	No undue accumulation of dust and dirt or humidity.												
	57	Electrical installation is clean and dry.									N/A			
COMMENTS:														
VALIDATION ROLES		SUB-CONTRACTOR	CONTRACTOR		TPI				COMPANY					
NAME														
SIGNATURE														
POSITION														
DATE														

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)	 
	Construction	
	Hazardous Area Ex Equipment Inspection Checklist	
A-ITR-Ex-021		




TASK NO.:	T-00193-1397	PHASE:	Construction												
SYSTEM NO.:	ISND-627-30	SYSTEM DESCRIPTION:	POWER GENERATION, DISTRIBUTION SYSTEM												
SUBSYSTEM NO.:	ISND-627-30-10	SUBSYSTEM DESCRIPTION:	Ex Equipment Certification												
FACILITY:	ISND-WHP-S007	AREA:	S01 - MAIN DECK												
TAG NO.:	627-30-DB-02-6Y-SKT3-JB-Ex	TAG DESCRIPTION:	Junction Box												
APPLICABLE PROCEDURE:	YPS1-2-25-0001	ACCEPTANCE CRITERIA:	YPS1-2-05-0001												
AREA DATA		EQUIPMENT DETAILS													
Location:		Ex Certificate:											Cert. Body:		
Layout Drawing:	S007-2-67-0005-001	Model:											Gas Group:		
Zone:		Serial Number:											Temp Class:		
Gas Group:		Ex Concept:											IP Rating:		
Temp Class:		Manufacturer:											Product Date:		
	No.	Description	Ex de	Ex d	Ex e	Ex n	Ex i	Ex q	Ex o	Ex m	Ex p	OK	NA	PL	
A - EQUIPMENT	1	Equipment is appropriate to the EPL/Zone requirements of the location.													
	2	Equipment group correct.					N/A								
	3	Equipment temperature class correct.													
	4	Circuit and/or equipment category and group correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	5	Equipment identification is available and correct.													
	6	Equipment installed is that specified in the documentation – fixed equipment only.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	7	Enclosure, glass to-metal sealing gaskets and/or compounds are satisfactory.						N/A		N/A					
	8	There are no unauthorized modifications.													
	9	Lamp rating, type and position are correct.					N/A	N/A	N/A	N/A					
	10	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in accordance with the certification requirements and securely earthed where required.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	11	Bolts, cable glands and MCTs (direct and indirect) and blanking elements are of the correct type and are complete and properly torqued.					N/A				N/A				
	12	Flange faces are clean and undamaged and gaskets, if any, are satisfactory.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	13	Flange gap dimensions are within maximal values permitted.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	14	Electrical connections are tight and properly torqued									N/A				

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
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B - I NS TA LL AT IO N	15	Condition of enclosure gaskets is satisfactory.		N/A			N/A				N/A			
	16	Enclosed-break and hermetically sealed devices are undamaged.	N/A	N/A	N/A		N/A				N/A			
	17	Restricted breathing enclosure is satisfactory.	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A			
	18	Motor fans have sufficient clearance to enclosure and/ or covers.					N/A	N/A	N/A	N/A	N/A			
	19	Breathing and draining devices are satisfactory.					N/A			N/A	N/A			
	20	Printed circuit boards are clean and undamaged.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	21	Type of cable is appropriate and installed in accordance with documentation.												
	22	Cable screens are earthed in accordance with the documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	23	There is no obvious damage to cables.												
	24	Sealing of trunking, ducts, pipes and/ or conduits is satisfactory.									N/A			
	25	Stopping boxes and cable boxes are correctly filled.			N/A	N/A	N/A				N/A			
	26	Integrity of conduit system and interface with mixed system is maintained.					N/A				N/A			
	27	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section).					N/A							
	28	Fault loop impedance (TN systems) or earthing resistance is satisfactory.					N/A							
	29	Insulation resistance is satisfactory.					N/A				N/A			
	30	Automatic electrical protective devices operate within permitted limits.					N/A							
	31	Automatic electrical protective devices are set correctly (auto re-set not possible).					N/A							
	32	Points to point connections are all correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	33	Earth continuity is satisfactory (e.g. Connections are tight, conductors are of sufficient cross-section) for non-galvanically isolated circuits.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	34	Earth connections maintain the integrity of the type of protection.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	35	Intrinsically safe circuit earthing and insulation resistance is satisfactory.	N/A	N/A	N/A	N/A					N/A			

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
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	36	Separation is maintained between intrinsically safe and non-intrinsically safe circuits in common distribution boxes or relay cubicles.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	37	As applicable, short circuit protection of the power supply is in accordance with documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	38	Special conditions of use (if applicable) are complied with.												
	39	Cables/Cores not in use are correctly terminated.									N/A			
	40	Obstructions adjacent to flameproof flanged joints are in accordance with IEC 60079-14.			N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	41	Variable voltage / frequency installation in accordance with documentation.					N/A	N/A	N/A	N/A	N/A			
	42	No evidence of leakage of filling material.	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A			
	43	Protective liquid is between minimum and maximum permissible levels.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	44	Protective liquid is compliant with IEC 60079-6 clause 4.2.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	45	No sign of deterioration of protective liquid by dust or humidity.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	46	No evidence of loosening of external fasteners.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	47	No evidence of loss of protective liquid.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	48	No exposure of encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure in adhesion or softening.	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A			
	49	Protective gas inlet temperature is below maximum specified.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	50	Ducts, pipes and enclosures are in good condition.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	51	Protective gas is substantially free from contaminants.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	52	Protective gas pressure and/or flow is adequate.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	53	Pressure and/or flow indicators, alarms and interlocks function correctly.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	54	Conditions of spark and practical barriers of ducts for exhausting the gas in hazardous area are satisfied.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
C - EN	55	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors.												

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
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V	56	No undue accumulation of dust and dirt or humidity.												
	57	Electrical installation is clean and dry.										N/A		
COMMENTS:														
VALIDATION ROLES		SUB-CONTRACTOR	CONTRACTOR		TPI				COMPANY					
NAME														
SIGNATURE														
POSITION														
DATE														

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)	 
	Construction	
	Hazardous Area Ex Equipment Inspection Checklist	
A-ITR-Ex-021		




TASK NO.:	T-00193-1376	PHASE:	Construction												
SYSTEM NO.:	ISND-627-30	SYSTEM DESCRIPTION:	POWER GENERATION, DISTRIBUTION SYSTEM												
SUBSYSTEM NO.:	ISND-627-30-10	SUBSYSTEM DESCRIPTION:	Ex Equipment Certification												
FACILITY:	ISND-WHP-S007	AREA:	S01 - MAIN DECK												
TAG NO.:	627-30-DB-02-6Y-SKT4-Ex	TAG DESCRIPTION:	Socket Outlet												
APPLICABLE PROCEDURE:	YPS1-2-25-0001	ACCEPTANCE CRITERIA:	YPS1-2-05-0001												
AREA DATA		EQUIPMENT DETAILS													
Location:		Ex Certificate:										Cert. Body:			
Layout Drawing:	S007-2-67-0005-001	Model:										Gas Group:			
Zone:		Serial Number:										Temp Class:			
Gas Group:		Ex Concept:										IP Rating:			
Temp Class:		Manufacturer:										Product Date:			
	No.	Description	Ex de	Ex d	Ex e	Ex n	Ex i	Ex q	Ex o	Ex m	Ex p	OK	NA	PL	
A - EQUIPMENT	1	Equipment is appropriate to the EPL/Zone requirements of the location.													
	2	Equipment group correct.					N/A								
	3	Equipment temperature class correct.													
	4	Circuit and/or equipment category and group correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	5	Equipment identification is available and correct.													
	6	Equipment installed is that specified in the documentation – fixed equipment only.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	7	Enclosure, glass to-metal sealing gaskets and/or compounds are satisfactory.						N/A		N/A					
	8	There are no unauthorized modifications.													
	9	Lamp rating, type and position are correct.					N/A	N/A	N/A	N/A					
	10	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in accordance with the certification requirements and securely earthed where required.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	11	Bolts, cable glands and MCTs (direct and indirect) and blanking elements are of the correct type and are complete and properly torqued.					N/A				N/A				
	12	Flange faces are clean and undamaged and gaskets, if any, are satisfactory.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	13	Flange gap dimensions are within maximal values permitted.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	14	Electrical connections are tight and properly torqued									N/A				

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
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B - I NS T A L L A T I O N	15	Condition of enclosure gaskets is satisfactory.		N/A			N/A				N/A			
	16	Enclosed-break and hermetically sealed devices are undamaged.	N/A	N/A	N/A		N/A				N/A			
	17	Restricted breathing enclosure is satisfactory.	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A			
	18	Motor fans have sufficient clearance to enclosure and/ or covers.					N/A	N/A	N/A	N/A	N/A			
	19	Breathing and draining devices are satisfactory.					N/A			N/A	N/A			
	20	Printed circuit boards are clean and undamaged.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	21	Type of cable is appropriate and installed in accordance with documentation.												
	22	Cable screens are earthed in accordance with the documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	23	There is no obvious damage to cables.												
	24	Sealing of trunking, ducts, pipes and/ or conduits is satisfactory.									N/A			
	25	Stopping boxes and cable boxes are correctly filled.			N/A	N/A	N/A				N/A			
	26	Integrity of conduit system and interface with mixed system is maintained.					N/A				N/A			
	27	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section).					N/A							
	28	Fault loop impedance (TN systems) or earthing resistance is satisfactory.					N/A							
	29	Insulation resistance is satisfactory.					N/A				N/A			
	30	Automatic electrical protective devices operate within permitted limits.					N/A							
	31	Automatic electrical protective devices are set correctly (auto re-set not possible).					N/A							
	32	Points to point connections are all correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	33	Earth continuity is satisfactory (e.g. Connections are tight, conductors are of sufficient cross-section) for non-galvanically isolated circuits.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	34	Earth connections maintain the integrity of the type of protection.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	35	Intrinsically safe circuit earthing and insulation resistance is satisfactory.	N/A	N/A	N/A	N/A					N/A			

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
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	36	Separation is maintained between intrinsically safe and non-intrinsically safe circuits in common distribution boxes or relay cubicles.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	37	As applicable, short circuit protection of the power supply is in accordance with documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	38	Special conditions of use (if applicable) are complied with.												
	39	Cables/Cores not in use are correctly terminated.									N/A			
	40	Obstructions adjacent to flameproof flanged joints are in accordance with IEC 60079-14.			N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	41	Variable voltage / frequency installation in accordance with documentation.					N/A	N/A	N/A	N/A	N/A			
	42	No evidence of leakage of filling material.	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A			
	43	Protective liquid is between minimum and maximum permissible levels.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	44	Protective liquid is compliant with IEC 60079-6 clause 4.2.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	45	No sign of deterioration of protective liquid by dust or humidity.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	46	No evidence of loosening of external fasteners.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	47	No evidence of loss of protective liquid.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	48	No exposure of encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure in adhesion or softening.	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A			
	49	Protective gas inlet temperature is below maximum specified.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	50	Ducts, pipes and enclosures are in good condition.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	51	Protective gas is substantially free from contaminants.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	52	Protective gas pressure and/or flow is adequate.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	53	Pressure and/or flow indicators, alarms and interlocks function correctly.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	54	Conditions of spark and practical barriers of ducts for exhausting the gas in hazardous area are satisfied.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
C - EN	55	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors.												

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											




V	56	No undue accumulation of dust and dirt or humidity.												
	57	Electrical installation is clean and dry.										N/A		
COMMENTS:														
VALIDATION ROLES		SUB-CONTRACTOR	CONTRACTOR		TPI				COMPANY					
NAME														
SIGNATURE														
POSITION														
DATE														

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)	 
	Construction	
	Hazardous Area Ex Equipment Inspection Checklist	
A-ITR-Ex-021		




TASK NO.:	T-00193-1363	PHASE:	Construction												
SYSTEM NO.:	ISND-627-30	SYSTEM DESCRIPTION:	POWER GENERATION, DISTRIBUTION SYSTEM												
SUBSYSTEM NO.:	ISND-627-30-10	SUBSYSTEM DESCRIPTION:	Ex Equipment Certification												
FACILITY:	ISND-WHP-S007	AREA:	S01 - MAIN DECK												
TAG NO.:	627-30-DB-02-6Y-SKT4-JB-Ex	TAG DESCRIPTION:	Junction Box												
APPLICABLE PROCEDURE:	YPS1-2-25-0001	ACCEPTANCE CRITERIA:	YPS1-2-05-0001												
AREA DATA		EQUIPMENT DETAILS													
Location:		Ex Certificate:										Cert. Body:			
Layout Drawing:	S007-2-67-0005-001	Model:										Gas Group:			
Zone:		Serial Number:										Temp Class:			
Gas Group:		Ex Concept:										IP Rating:			
Temp Class:		Manufacturer:										Product Date:			
	No.	Description	Ex de	Ex d	Ex e	Ex n	Ex i	Ex q	Ex o	Ex m	Ex p	OK	NA	PL	
A - EQUIPMENT	1	Equipment is appropriate to the EPL/Zone requirements of the location.													
	2	Equipment group correct.					N/A								
	3	Equipment temperature class correct.													
	4	Circuit and/or equipment category and group correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	5	Equipment identification is available and correct.													
	6	Equipment installed is that specified in the documentation – fixed equipment only.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	7	Enclosure, glass to-metal sealing gaskets and/or compounds are satisfactory.						N/A		N/A					
	8	There are no unauthorized modifications.													
	9	Lamp rating, type and position are correct.					N/A	N/A	N/A	N/A					
	10	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in accordance with the certification requirements and securely earthed where required.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	11	Bolts, cable glands and MCTs (direct and indirect) and blanking elements are of the correct type and are complete and properly torqued.					N/A				N/A				
	12	Flange faces are clean and undamaged and gaskets, if any, are satisfactory.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	13	Flange gap dimensions are within maximal values permitted.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	14	Electrical connections are tight and properly torqued									N/A				

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											




B - I NS TA LL AT IO N	15	Condition of enclosure gaskets is satisfactory.		N/A			N/A				N/A			
	16	Enclosed-break and hermetically sealed devices are undamaged.	N/A	N/A	N/A		N/A				N/A			
	17	Restricted breathing enclosure is satisfactory.	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A			
	18	Motor fans have sufficient clearance to enclosure and/ or covers.					N/A	N/A	N/A	N/A	N/A			
	19	Breathing and draining devices are satisfactory.					N/A			N/A	N/A			
	20	Printed circuit boards are clean and undamaged.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	21	Type of cable is appropriate and installed in accordance with documentation.												
	22	Cable screens are earthed in accordance with the documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	23	There is no obvious damage to cables.												
	24	Sealing of trunking, ducts, pipes and/ or conduits is satisfactory.									N/A			
	25	Stopping boxes and cable boxes are correctly filled.			N/A	N/A	N/A				N/A			
	26	Integrity of conduit system and interface with mixed system is maintained.					N/A				N/A			
	27	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section).					N/A							
	28	Fault loop impedance (TN systems) or earthing resistance is satisfactory.					N/A							
	29	Insulation resistance is satisfactory.					N/A				N/A			
	30	Automatic electrical protective devices operate within permitted limits.					N/A							
	31	Automatic electrical protective devices are set correctly (auto re-set not possible).					N/A							
	32	Points to point connections are all correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	33	Earth continuity is satisfactory (e.g. Connections are tight, conductors are of sufficient cross-section) for non-galvanically isolated circuits.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	34	Earth connections maintain the integrity of the type of protection.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	35	Intrinsically safe circuit earthing and insulation resistance is satisfactory.	N/A	N/A	N/A	N/A					N/A			

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
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	36	Separation is maintained between intrinsically safe and non-intrinsically safe circuits in common distribution boxes or relay cubicles.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	37	As applicable, short circuit protection of the power supply is in accordance with documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	38	Special conditions of use (if applicable) are complied with.												
	39	Cables/Cores not in use are correctly terminated.									N/A			
	40	Obstructions adjacent to flameproof flanged joints are in accordance with IEC 60079-14.			N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	41	Variable voltage / frequency installation in accordance with documentation.					N/A	N/A	N/A	N/A	N/A			
	42	No evidence of leakage of filling material.	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A			
	43	Protective liquid is between minimum and maximum permissible levels.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	44	Protective liquid is compliant with IEC 60079-6 clause 4.2.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	45	No sign of deterioration of protective liquid by dust or humidity.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	46	No evidence of loosening of external fasteners.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	47	No evidence of loss of protective liquid.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	48	No exposure of encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure in adhesion or softening.	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A			
	49	Protective gas inlet temperature is below maximum specified.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	50	Ducts, pipes and enclosures are in good condition.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	51	Protective gas is substantially free from contaminants.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	52	Protective gas pressure and/or flow is adequate.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	53	Pressure and/or flow indicators, alarms and interlocks function correctly.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	54	Conditions of spark and practical barriers of ducts for exhausting the gas in hazardous area are satisfied.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
C - EN	55	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors.												

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
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V	56	No undue accumulation of dust and dirt or humidity.												
	57	Electrical installation is clean and dry.										N/A		
COMMENTS:														
VALIDATION ROLES		SUB-CONTRACTOR	CONTRACTOR		TPI				COMPANY					
NAME														
SIGNATURE														
POSITION														
DATE														

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)	 
	Construction	
	Hazardous Area Ex Equipment Inspection Checklist	
A-ITR-Ex-021		




TASK NO.:	T-00193-1713	PHASE:	Construction												
SYSTEM NO.:	ISND-627-30	SYSTEM DESCRIPTION:	POWER GENERATION, DISTRIBUTION SYSTEM												
SUBSYSTEM NO.:	ISND-627-30-10	SUBSYSTEM DESCRIPTION:	Ex Equipment Certification												
FACILITY:	ISND-WHP-S007	AREA:	S01 - MAIN DECK												
TAG NO.:	627-30-DB-02-7R-SKT1-Ex	TAG DESCRIPTION:	Socket Outlet												
APPLICABLE PROCEDURE:	YPS1-2-25-0001	ACCEPTANCE CRITERIA:	YPS1-2-05-0001												
AREA DATA		EQUIPMENT DETAILS													
Location:		Ex Certificate:										Cert. Body:			
Layout Drawing:	S007-2-67-0005-001	Model:										Gas Group:			
Zone:		Serial Number:										Temp Class:			
Gas Group:		Ex Concept:										IP Rating:			
Temp Class:		Manufacturer:										Product Date:			
	No.	Description	Ex de	Ex d	Ex e	Ex n	Ex i	Ex q	Ex o	Ex m	Ex p	OK	NA	PL	
A - EQUIPMENT	1	Equipment is appropriate to the EPL/Zone requirements of the location.													
	2	Equipment group correct.					N/A								
	3	Equipment temperature class correct.													
	4	Circuit and/or equipment category and group correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	5	Equipment identification is available and correct.													
	6	Equipment installed is that specified in the documentation – fixed equipment only.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	7	Enclosure, glass to-metal sealing gaskets and/or compounds are satisfactory.						N/A		N/A					
	8	There are no unauthorized modifications.													
	9	Lamp rating, type and position are correct.					N/A	N/A	N/A	N/A					
	10	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in accordance with the certification requirements and securely earthed where required.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	11	Bolts, cable glands and MCTs (direct and indirect) and blanking elements are of the correct type and are complete and properly torqued.					N/A				N/A				
	12	Flange faces are clean and undamaged and gaskets, if any, are satisfactory.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	13	Flange gap dimensions are within maximal values permitted.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	14	Electrical connections are tight and properly torqued									N/A				

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											




B - I NS TA LL AT IO N	15	Condition of enclosure gaskets is satisfactory.		N/A			N/A				N/A			
	16	Enclosed-break and hermetically sealed devices are undamaged.	N/A	N/A	N/A		N/A				N/A			
	17	Restricted breathing enclosure is satisfactory.	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A			
	18	Motor fans have sufficient clearance to enclosure and/ or covers.					N/A	N/A	N/A	N/A	N/A			
	19	Breathing and draining devices are satisfactory.					N/A			N/A	N/A			
	20	Printed circuit boards are clean and undamaged.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	21	Type of cable is appropriate and installed in accordance with documentation.												
	22	Cable screens are earthed in accordance with the documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	23	There is no obvious damage to cables.												
	24	Sealing of trunking, ducts, pipes and/ or conduits is satisfactory.									N/A			
	25	Stopping boxes and cable boxes are correctly filled.			N/A	N/A	N/A				N/A			
	26	Integrity of conduit system and interface with mixed system is maintained.					N/A				N/A			
	27	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section).					N/A							
	28	Fault loop impedance (TN systems) or earthing resistance is satisfactory.					N/A							
	29	Insulation resistance is satisfactory.					N/A				N/A			
	30	Automatic electrical protective devices operate within permitted limits.					N/A							
	31	Automatic electrical protective devices are set correctly (auto re-set not possible).					N/A							
	32	Points to point connections are all correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	33	Earth continuity is satisfactory (e.g. Connections are tight, conductors are of sufficient cross-section) for non-galvanically isolated circuits.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	34	Earth connections maintain the integrity of the type of protection.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	35	Intrinsically safe circuit earthing and insulation resistance is satisfactory.	N/A	N/A	N/A	N/A					N/A			

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											




	36	Separation is maintained between intrinsically safe and non-intrinsically safe circuits in common distribution boxes or relay cubicles.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	37	As applicable, short circuit protection of the power supply is in accordance with documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	38	Special conditions of use (if applicable) are complied with.												
	39	Cables/Cores not in use are correctly terminated.									N/A			
	40	Obstructions adjacent to flameproof flanged joints are in accordance with IEC 60079-14.			N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	41	Variable voltage / frequency installation in accordance with documentation.					N/A	N/A	N/A	N/A	N/A			
	42	No evidence of leakage of filling material.	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A			
	43	Protective liquid is between minimum and maximum permissible levels.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	44	Protective liquid is compliant with IEC 60079-6 clause 4.2.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	45	No sign of deterioration of protective liquid by dust or humidity.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	46	No evidence of loosening of external fasteners.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	47	No evidence of loss of protective liquid.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	48	No exposure of encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure in adhesion or softening.	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A			
	49	Protective gas inlet temperature is below maximum specified.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	50	Ducts, pipes and enclosures are in good condition.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	51	Protective gas is substantially free from contaminants.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	52	Protective gas pressure and/or flow is adequate.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	53	Pressure and/or flow indicators, alarms and interlocks function correctly.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	54	Conditions of spark and practical barriers of ducts for exhausting the gas in hazardous area are satisfied.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
C - EN	55	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors.												

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)		 
	Construction		
	Hazardous Area Ex Equipment Inspection Checklist		
A-ITR-Ex-021			




V	56	No undue accumulation of dust and dirt or humidity.												
	57	Electrical installation is clean and dry.										N/A		
COMMENTS:														
VALIDATION ROLES		SUB-CONTRACTOR	CONTRACTOR		TPI			COMPANY						
NAME														
SIGNATURE														
POSITION														
DATE														

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)	 
	Construction	
	Hazardous Area Ex Equipment Inspection Checklist	
A-ITR-Ex-021		




TASK NO.:	T-00193-1695	PHASE:	Construction												
SYSTEM NO.:	ISND-627-30	SYSTEM DESCRIPTION:	POWER GENERATION, DISTRIBUTION SYSTEM												
SUBSYSTEM NO.:	ISND-627-30-10	SUBSYSTEM DESCRIPTION:	Ex Equipment Certification												
FACILITY:	ISND-WHP-S007	AREA:	S02 - MEZZANINE DECK												
TAG NO.:	627-30-DB-02-7R-SKT2-Ex	TAG DESCRIPTION:	Socket Outlet												
APPLICABLE PROCEDURE:	YPS1-2-25-0001	ACCEPTANCE CRITERIA:	YPS1-2-05-0001												
AREA DATA		EQUIPMENT DETAILS													
Location:		Ex Certificate:											Cert. Body:		
Layout Drawing:	S007-2-67-0004-001	Model:											Gas Group:		
Zone:		Serial Number:											Temp Class:		
Gas Group:		Ex Concept:											IP Rating:		
Temp Class:		Manufacturer:											Product Date:		
	No.	Description	Ex de	Ex d	Ex e	Ex n	Ex i	Ex q	Ex o	Ex m	Ex p	OK	NA	PL	
A - EQUIPMENT	1	Equipment is appropriate to the EPL/Zone requirements of the location.													
	2	Equipment group correct.					N/A								
	3	Equipment temperature class correct.													
	4	Circuit and/or equipment category and group correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	5	Equipment identification is available and correct.													
	6	Equipment installed is that specified in the documentation – fixed equipment only.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	7	Enclosure, glass to-metal sealing gaskets and/or compounds are satisfactory.						N/A		N/A					
	8	There are no unauthorized modifications.													
	9	Lamp rating, type and position are correct.					N/A	N/A	N/A	N/A					
	10	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in accordance with the certification requirements and securely earthed where required.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	11	Bolts, cable glands and MCTs (direct and indirect) and blanking elements are of the correct type and are complete and properly torqued.					N/A				N/A				
	12	Flange faces are clean and undamaged and gaskets, if any, are satisfactory.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	13	Flange gap dimensions are within maximal values permitted.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	14	Electrical connections are tight and properly torqued									N/A				

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											




B - I NS TA LL AT IO N	15	Condition of enclosure gaskets is satisfactory.		N/A			N/A				N/A			
	16	Enclosed-break and hermetically sealed devices are undamaged.	N/A	N/A	N/A		N/A				N/A			
	17	Restricted breathing enclosure is satisfactory.	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A			
	18	Motor fans have sufficient clearance to enclosure and/ or covers.					N/A	N/A	N/A	N/A	N/A			
	19	Breathing and draining devices are satisfactory.					N/A			N/A	N/A			
	20	Printed circuit boards are clean and undamaged.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	21	Type of cable is appropriate and installed in accordance with documentation.												
	22	Cable screens are earthed in accordance with the documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	23	There is no obvious damage to cables.												
	24	Sealing of trunking, ducts, pipes and/ or conduits is satisfactory.									N/A			
	25	Stopping boxes and cable boxes are correctly filled.			N/A	N/A	N/A				N/A			
	26	Integrity of conduit system and interface with mixed system is maintained.					N/A				N/A			
	27	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section).					N/A							
	28	Fault loop impedance (TN systems) or earthing resistance is satisfactory.					N/A							
	29	Insulation resistance is satisfactory.					N/A				N/A			
	30	Automatic electrical protective devices operate within permitted limits.					N/A							
	31	Automatic electrical protective devices are set correctly (auto re-set not possible).					N/A							
	32	Points to point connections are all correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	33	Earth continuity is satisfactory (e.g. Connections are tight, conductors are of sufficient cross-section) for non-galvanically isolated circuits.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	34	Earth connections maintain the integrity of the type of protection.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	35	Intrinsically safe circuit earthing and insulation resistance is satisfactory.	N/A	N/A	N/A	N/A					N/A			

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											




	36	Separation is maintained between intrinsically safe and non-intrinsically safe circuits in common distribution boxes or relay cubicles.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	37	As applicable, short circuit protection of the power supply is in accordance with documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	38	Special conditions of use (if applicable) are complied with.												
	39	Cables/Cores not in use are correctly terminated.									N/A			
	40	Obstructions adjacent to flameproof flanged joints are in accordance with IEC 60079-14.			N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	41	Variable voltage / frequency installation in accordance with documentation.					N/A	N/A	N/A	N/A	N/A			
	42	No evidence of leakage of filling material.	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A			
	43	Protective liquid is between minimum and maximum permissible levels.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	44	Protective liquid is compliant with IEC 60079-6 clause 4.2.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	45	No sign of deterioration of protective liquid by dust or humidity.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	46	No evidence of loosening of external fasteners.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	47	No evidence of loss of protective liquid.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	48	No exposure of encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure in adhesion or softening.	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A			
	49	Protective gas inlet temperature is below maximum specified.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	50	Ducts, pipes and enclosures are in good condition.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	51	Protective gas is substantially free from contaminants.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	52	Protective gas pressure and/or flow is adequate.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	53	Pressure and/or flow indicators, alarms and interlocks function correctly.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	54	Conditions of spark and practical barriers of ducts for exhausting the gas in hazardous area are satisfied.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
C - EN	55	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors.												

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											




V	56	No undue accumulation of dust and dirt or humidity.												
	57	Electrical installation is clean and dry.										N/A		
COMMENTS:														
VALIDATION ROLES		SUB-CONTRACTOR	CONTRACTOR		TPI				COMPANY					
NAME														
SIGNATURE														
POSITION														
DATE														

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)	 
	Construction	
	Hazardous Area Ex Equipment Inspection Checklist	
A-ITR-Ex-021		




TASK NO.:	T-00193-1311	PHASE:	Construction												
SYSTEM NO.:	ISND-627-30	SYSTEM DESCRIPTION:	POWER GENERATION, DISTRIBUTION SYSTEM												
SUBSYSTEM NO.:	ISND-627-30-10	SUBSYSTEM DESCRIPTION:	Ex Equipment Certification												
FACILITY:	ISND-WHP-S007	AREA:	S02 - MEZZANINE DECK												
TAG NO.:	627-30-DB-02-7R-SKT3-Ex	TAG DESCRIPTION:	Socket Outlet												
APPLICABLE PROCEDURE:	YPS1-2-25-0001	ACCEPTANCE CRITERIA:	YPS1-2-05-0001												
AREA DATA		EQUIPMENT DETAILS													
Location:		Ex Certificate:										Cert. Body:			
Layout Drawing:	S007-2-67-0004-001	Model:										Gas Group:			
Zone:		Serial Number:										Temp Class:			
Gas Group:		Ex Concept:										IP Rating:			
Temp Class:		Manufacturer:										Product Date:			
	No.	Description	Ex de	Ex d	Ex e	Ex n	Ex i	Ex q	Ex o	Ex m	Ex p	OK	NA	PL	
A - EQUIPMENT	1	Equipment is appropriate to the EPL/Zone requirements of the location.													
	2	Equipment group correct.					N/A								
	3	Equipment temperature class correct.													
	4	Circuit and/or equipment category and group correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	5	Equipment identification is available and correct.													
	6	Equipment installed is that specified in the documentation – fixed equipment only.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	7	Enclosure, glass to-metal sealing gaskets and/or compounds are satisfactory.						N/A		N/A					
	8	There are no unauthorized modifications.													
	9	Lamp rating, type and position are correct.					N/A	N/A	N/A	N/A					
	10	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in accordance with the certification requirements and securely earthed where required.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	11	Bolts, cable glands and MCTs (direct and indirect) and blanking elements are of the correct type and are complete and properly torqued.					N/A				N/A				
	12	Flange faces are clean and undamaged and gaskets, if any, are satisfactory.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	13	Flange gap dimensions are within maximal values permitted.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	14	Electrical connections are tight and properly torqued									N/A				

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
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B - I NS T A L L A T I O N	15	Condition of enclosure gaskets is satisfactory.		N/A			N/A				N/A			
	16	Enclosed-break and hermetically sealed devices are undamaged.	N/A	N/A	N/A		N/A				N/A			
	17	Restricted breathing enclosure is satisfactory.	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A			
	18	Motor fans have sufficient clearance to enclosure and/ or covers.					N/A	N/A	N/A	N/A	N/A			
	19	Breathing and draining devices are satisfactory.					N/A			N/A	N/A			
	20	Printed circuit boards are clean and undamaged.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	21	Type of cable is appropriate and installed in accordance with documentation.												
	22	Cable screens are earthed in accordance with the documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	23	There is no obvious damage to cables.												
	24	Sealing of trunking, ducts, pipes and/ or conduits is satisfactory.									N/A			
	25	Stopping boxes and cable boxes are correctly filled.			N/A	N/A	N/A				N/A			
	26	Integrity of conduit system and interface with mixed system is maintained.					N/A				N/A			
	27	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section).					N/A							
	28	Fault loop impedance (TN systems) or earthing resistance is satisfactory.					N/A							
	29	Insulation resistance is satisfactory.					N/A				N/A			
	30	Automatic electrical protective devices operate within permitted limits.					N/A							
	31	Automatic electrical protective devices are set correctly (auto re-set not possible).					N/A							
	32	Points to point connections are all correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	33	Earth continuity is satisfactory (e.g. Connections are tight, conductors are of sufficient cross-section) for non-galvanically isolated circuits.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	34	Earth connections maintain the integrity of the type of protection.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	35	Intrinsically safe circuit earthing and insulation resistance is satisfactory.	N/A	N/A	N/A	N/A					N/A			

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
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	36	Separation is maintained between intrinsically safe and non-intrinsically safe circuits in common distribution boxes or relay cubicles.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	37	As applicable, short circuit protection of the power supply is in accordance with documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	38	Special conditions of use (if applicable) are complied with.												
	39	Cables/Cores not in use are correctly terminated.									N/A			
	40	Obstructions adjacent to flameproof flanged joints are in accordance with IEC 60079-14.			N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	41	Variable voltage / frequency installation in accordance with documentation.					N/A	N/A	N/A	N/A	N/A			
	42	No evidence of leakage of filling material.	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A			
	43	Protective liquid is between minimum and maximum permissible levels.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	44	Protective liquid is compliant with IEC 60079-6 clause 4.2.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	45	No sign of deterioration of protective liquid by dust or humidity.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	46	No evidence of loosening of external fasteners.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	47	No evidence of loss of protective liquid.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	48	No exposure of encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure in adhesion or softening.	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A			
	49	Protective gas inlet temperature is below maximum specified.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	50	Ducts, pipes and enclosures are in good condition.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	51	Protective gas is substantially free from contaminants.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	52	Protective gas pressure and/or flow is adequate.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	53	Pressure and/or flow indicators, alarms and interlocks function correctly.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	54	Conditions of spark and practical barriers of ducts for exhausting the gas in hazardous area are satisfied.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
C - EN	55	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors.												

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											




V	56	No undue accumulation of dust and dirt or humidity.												
	57	Electrical installation is clean and dry.										N/A		
COMMENTS:														
VALIDATION ROLES		SUB-CONTRACTOR	CONTRACTOR		TPI				COMPANY					
NAME														
SIGNATURE														
POSITION														
DATE														

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)	 
	Construction	
	Hazardous Area Ex Equipment Inspection Checklist	
A-ITR-Ex-021		




TASK NO.:	T-00193-1703	PHASE:	Construction												
SYSTEM NO.:	ISND-627-30	SYSTEM DESCRIPTION:	POWER GENERATION, DISTRIBUTION SYSTEM												
SUBSYSTEM NO.:	ISND-627-30-10	SUBSYSTEM DESCRIPTION:	Ex Equipment Certification												
FACILITY:	ISND-WHP-S007	AREA:	S02 - MEZZANINE DECK												
TAG NO.:	627-30-DB-02-7R-SKT3-JB-Ex	TAG DESCRIPTION:	Junction Box												
APPLICABLE PROCEDURE:	YPS1-2-25-0001	ACCEPTANCE CRITERIA:	YPS1-2-05-0001												
AREA DATA		EQUIPMENT DETAILS													
Location:		Ex Certificate:										Cert. Body:			
Layout Drawing:	S007-2-67-0004-001	Model:										Gas Group:			
Zone:		Serial Number:										Temp Class:			
Gas Group:		Ex Concept:										IP Rating:			
Temp Class:		Manufacturer:										Product Date:			
	No.	Description	Ex de	Ex d	Ex e	Ex n	Ex i	Ex q	Ex o	Ex m	Ex p	OK	NA	PL	
A - EQUIPMENT	1	Equipment is appropriate to the EPL/Zone requirements of the location.													
	2	Equipment group correct.					N/A								
	3	Equipment temperature class correct.													
	4	Circuit and/or equipment category and group correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	5	Equipment identification is available and correct.													
	6	Equipment installed is that specified in the documentation – fixed equipment only.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	7	Enclosure, glass to-metal sealing gaskets and/or compounds are satisfactory.						N/A		N/A					
	8	There are no unauthorized modifications.													
	9	Lamp rating, type and position are correct.					N/A	N/A	N/A	N/A					
	10	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in accordance with the certification requirements and securely earthed where required.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	11	Bolts, cable glands and MCTs (direct and indirect) and blanking elements are of the correct type and are complete and properly torqued.					N/A				N/A				
	12	Flange faces are clean and undamaged and gaskets, if any, are satisfactory.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	13	Flange gap dimensions are within maximal values permitted.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	14	Electrical connections are tight and properly torqued									N/A				

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											




B - I NS TA LL AT IO N	15	Condition of enclosure gaskets is satisfactory.		N/A			N/A				N/A			
	16	Enclosed-break and hermetically sealed devices are undamaged.	N/A	N/A	N/A		N/A				N/A			
	17	Restricted breathing enclosure is satisfactory.	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A			
	18	Motor fans have sufficient clearance to enclosure and/ or covers.					N/A	N/A	N/A	N/A	N/A			
	19	Breathing and draining devices are satisfactory.					N/A			N/A	N/A			
	20	Printed circuit boards are clean and undamaged.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	21	Type of cable is appropriate and installed in accordance with documentation.												
	22	Cable screens are earthed in accordance with the documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	23	There is no obvious damage to cables.												
	24	Sealing of trunking, ducts, pipes and/ or conduits is satisfactory.									N/A			
	25	Stopping boxes and cable boxes are correctly filled.			N/A	N/A	N/A				N/A			
	26	Integrity of conduit system and interface with mixed system is maintained.					N/A				N/A			
	27	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section).					N/A							
	28	Fault loop impedance (TN systems) or earthing resistance is satisfactory.					N/A							
	29	Insulation resistance is satisfactory.					N/A				N/A			
	30	Automatic electrical protective devices operate within permitted limits.					N/A							
	31	Automatic electrical protective devices are set correctly (auto re-set not possible).					N/A							
	32	Points to point connections are all correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	33	Earth continuity is satisfactory (e.g. Connections are tight, conductors are of sufficient cross-section) for non-galvanically isolated circuits.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	34	Earth connections maintain the integrity of the type of protection.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	35	Intrinsically safe circuit earthing and insulation resistance is satisfactory.	N/A	N/A	N/A	N/A					N/A			

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											




	36	Separation is maintained between intrinsically safe and non-intrinsically safe circuits in common distribution boxes or relay cubicles.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	37	As applicable, short circuit protection of the power supply is in accordance with documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	38	Special conditions of use (if applicable) are complied with.												
	39	Cables/Cores not in use are correctly terminated.									N/A			
	40	Obstructions adjacent to flameproof flanged joints are in accordance with IEC 60079-14.			N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	41	Variable voltage / frequency installation in accordance with documentation.					N/A	N/A	N/A	N/A	N/A			
	42	No evidence of leakage of filling material.	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A			
	43	Protective liquid is between minimum and maximum permissible levels.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	44	Protective liquid is compliant with IEC 60079-6 clause 4.2.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	45	No sign of deterioration of protective liquid by dust or humidity.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	46	No evidence of loosening of external fasteners.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	47	No evidence of loss of protective liquid.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	48	No exposure of encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure in adhesion or softening.	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A			
	49	Protective gas inlet temperature is below maximum specified.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	50	Ducts, pipes and enclosures are in good condition.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	51	Protective gas is substantially free from contaminants.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	52	Protective gas pressure and/or flow is adequate.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	53	Pressure and/or flow indicators, alarms and interlocks function correctly.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	54	Conditions of spark and practical barriers of ducts for exhausting the gas in hazardous area are satisfied.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
C - EN	55	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors.												

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											




V	56	No undue accumulation of dust and dirt or humidity.													
	57	Electrical installation is clean and dry.										N/A			
COMMENTS:															
VALIDATION ROLES		SUB-CONTRACTOR	CONTRACTOR		TPI				COMPANY						
NAME															
SIGNATURE															
POSITION															
DATE															

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)	 
	Construction	
	Hazardous Area Ex Equipment Inspection Checklist	
A-ITR-Ex-021		




TASK NO.:	T-00193-1650	PHASE:	Construction												
SYSTEM NO.:	ISND-627-30	SYSTEM DESCRIPTION:	POWER GENERATION, DISTRIBUTION SYSTEM												
SUBSYSTEM NO.:	ISND-627-30-10	SUBSYSTEM DESCRIPTION:	Ex Equipment Certification												
FACILITY:	ISND-WHP-S007	AREA:	S03 - CELLAR DECK												
TAG NO.:	627-30-DB-02-7R-SKT4-Ex	TAG DESCRIPTION:	Socket Outlet												
APPLICABLE PROCEDURE:	YPS1-2-25-0001	ACCEPTANCE CRITERIA:	YPS1-2-05-0001												
AREA DATA		EQUIPMENT DETAILS													
Location:		Ex Certificate:										Cert. Body:			
Layout Drawing:	S007-2-67-0003-001	Model:										Gas Group:			
Zone:		Serial Number:										Temp Class:			
Gas Group:		Ex Concept:										IP Rating:			
Temp Class:		Manufacturer:										Product Date:			
	No.	Description	Ex de	Ex d	Ex e	Ex n	Ex i	Ex q	Ex o	Ex m	Ex p	OK	NA	PL	
A - EQUIPMENT	1	Equipment is appropriate to the EPL/Zone requirements of the location.													
	2	Equipment group correct.					N/A								
	3	Equipment temperature class correct.													
	4	Circuit and/or equipment category and group correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	5	Equipment identification is available and correct.													
	6	Equipment installed is that specified in the documentation – fixed equipment only.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	7	Enclosure, glass to-metal sealing gaskets and/or compounds are satisfactory.						N/A		N/A					
	8	There are no unauthorized modifications.													
	9	Lamp rating, type and position are correct.					N/A	N/A	N/A	N/A					
	10	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in accordance with the certification requirements and securely earthed where required.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	11	Bolts, cable glands and MCTs (direct and indirect) and blanking elements are of the correct type and are complete and properly torqued.					N/A				N/A				
	12	Flange faces are clean and undamaged and gaskets, if any, are satisfactory.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	13	Flange gap dimensions are within maximal values permitted.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	14	Electrical connections are tight and properly torqued									N/A				

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											




B - I NS T A L L A T I O N	15	Condition of enclosure gaskets is satisfactory.		N/A			N/A				N/A			
	16	Enclosed-break and hermetically sealed devices are undamaged.	N/A	N/A	N/A		N/A				N/A			
	17	Restricted breathing enclosure is satisfactory.	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A			
	18	Motor fans have sufficient clearance to enclosure and/ or covers.					N/A	N/A	N/A	N/A	N/A			
	19	Breathing and draining devices are satisfactory.					N/A			N/A	N/A			
	20	Printed circuit boards are clean and undamaged.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	21	Type of cable is appropriate and installed in accordance with documentation.												
	22	Cable screens are earthed in accordance with the documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	23	There is no obvious damage to cables.												
	24	Sealing of trunking, ducts, pipes and/ or conduits is satisfactory.									N/A			
	25	Stopping boxes and cable boxes are correctly filled.			N/A	N/A	N/A				N/A			
	26	Integrity of conduit system and interface with mixed system is maintained.					N/A				N/A			
	27	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section).					N/A							
	28	Fault loop impedance (TN systems) or earthing resistance is satisfactory.					N/A							
	29	Insulation resistance is satisfactory.					N/A				N/A			
	30	Automatic electrical protective devices operate within permitted limits.					N/A							
	31	Automatic electrical protective devices are set correctly (auto re-set not possible).					N/A							
	32	Points to point connections are all correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	33	Earth continuity is satisfactory (e.g. Connections are tight, conductors are of sufficient cross-section) for non-galvanically isolated circuits.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	34	Earth connections maintain the integrity of the type of protection.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	35	Intrinsically safe circuit earthing and insulation resistance is satisfactory.	N/A	N/A	N/A	N/A					N/A			

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											




	36	Separation is maintained between intrinsically safe and non-intrinsically safe circuits in common distribution boxes or relay cubicles.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	37	As applicable, short circuit protection of the power supply is in accordance with documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	38	Special conditions of use (if applicable) are complied with.												
	39	Cables/Cores not in use are correctly terminated.									N/A			
	40	Obstructions adjacent to flameproof flanged joints are in accordance with IEC 60079-14.			N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	41	Variable voltage / frequency installation in accordance with documentation.					N/A	N/A	N/A	N/A	N/A			
	42	No evidence of leakage of filling material.	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A			
	43	Protective liquid is between minimum and maximum permissible levels.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	44	Protective liquid is compliant with IEC 60079-6 clause 4.2.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	45	No sign of deterioration of protective liquid by dust or humidity.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	46	No evidence of loosening of external fasteners.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	47	No evidence of loss of protective liquid.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	48	No exposure of encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure in adhesion or softening.	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A			
	49	Protective gas inlet temperature is below maximum specified.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	50	Ducts, pipes and enclosures are in good condition.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	51	Protective gas is substantially free from contaminants.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	52	Protective gas pressure and/or flow is adequate.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	53	Pressure and/or flow indicators, alarms and interlocks function correctly.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	54	Conditions of spark and practical barriers of ducts for exhausting the gas in hazardous area are satisfied.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
C - EN	55	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors.												

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
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V	56	No undue accumulation of dust and dirt or humidity.												
	57	Electrical installation is clean and dry.									N/A			
COMMENTS:														
VALIDATION ROLES		SUB-CONTRACTOR	CONTRACTOR		TPI				COMPANY					
NAME														
SIGNATURE														
POSITION														
DATE														

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)	 
	Construction	
	Hazardous Area Ex Equipment Inspection Checklist	
A-ITR-Ex-021		




TASK NO.:	T-00193-1353	PHASE:	Construction												
SYSTEM NO.:	ISND-627-30	SYSTEM DESCRIPTION:	POWER GENERATION, DISTRIBUTION SYSTEM												
SUBSYSTEM NO.:	ISND-627-30-10	SUBSYSTEM DESCRIPTION:	Ex Equipment Certification												
FACILITY:	ISND-WHP-S007	AREA:	S01 - MAIN DECK												
TAG NO.:	627-30-DB-02-8R-SKT1-Ex	TAG DESCRIPTION:	Socket Outlet												
APPLICABLE PROCEDURE:	YPS1-2-25-0001	ACCEPTANCE CRITERIA:	YPS1-2-05-0001												
AREA DATA		EQUIPMENT DETAILS													
Location:		Ex Certificate:										Cert. Body:			
Layout Drawing:	S007-2-67-0006-001	Model:										Gas Group:			
Zone:		Serial Number:										Temp Class:			
Gas Group:		Ex Concept:										IP Rating:			
Temp Class:		Manufacturer:										Product Date:			
	No.	Description	Ex de	Ex d	Ex e	Ex n	Ex i	Ex q	Ex o	Ex m	Ex p	OK	NA	PL	
A - EQUIPMENT	1	Equipment is appropriate to the EPL/Zone requirements of the location.													
	2	Equipment group correct.					N/A								
	3	Equipment temperature class correct.													
	4	Circuit and/or equipment category and group correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	5	Equipment identification is available and correct.													
	6	Equipment installed is that specified in the documentation – fixed equipment only.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	7	Enclosure, glass to-metal sealing gaskets and/or compounds are satisfactory.						N/A		N/A					
	8	There are no unauthorized modifications.													
	9	Lamp rating, type and position are correct.					N/A	N/A	N/A	N/A					
	10	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in accordance with the certification requirements and securely earthed where required.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	11	Bolts, cable glands and MCTs (direct and indirect) and blanking elements are of the correct type and are complete and properly torqued.					N/A				N/A				
	12	Flange faces are clean and undamaged and gaskets, if any, are satisfactory.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	13	Flange gap dimensions are within maximal values permitted.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	14	Electrical connections are tight and properly torqued									N/A				

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											




B - I NS T A L L A T I O N	15	Condition of enclosure gaskets is satisfactory.		N/A			N/A				N/A			
	16	Enclosed-break and hermetically sealed devices are undamaged.	N/A	N/A	N/A		N/A				N/A			
	17	Restricted breathing enclosure is satisfactory.	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A			
	18	Motor fans have sufficient clearance to enclosure and/ or covers.					N/A	N/A	N/A	N/A	N/A			
	19	Breathing and draining devices are satisfactory.					N/A			N/A	N/A			
	20	Printed circuit boards are clean and undamaged.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	21	Type of cable is appropriate and installed in accordance with documentation.												
	22	Cable screens are earthed in accordance with the documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	23	There is no obvious damage to cables.												
	24	Sealing of trunking, ducts, pipes and/ or conduits is satisfactory.									N/A			
	25	Stopping boxes and cable boxes are correctly filled.			N/A	N/A	N/A				N/A			
	26	Integrity of conduit system and interface with mixed system is maintained.					N/A				N/A			
	27	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section).					N/A							
	28	Fault loop impedance (TN systems) or earthing resistance is satisfactory.					N/A							
	29	Insulation resistance is satisfactory.					N/A				N/A			
	30	Automatic electrical protective devices operate within permitted limits.					N/A							
	31	Automatic electrical protective devices are set correctly (auto re-set not possible).					N/A							
	32	Points to point connections are all correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	33	Earth continuity is satisfactory (e.g. Connections are tight, conductors are of sufficient cross-section) for non-galvanically isolated circuits.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	34	Earth connections maintain the integrity of the type of protection.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	35	Intrinsically safe circuit earthing and insulation resistance is satisfactory.	N/A	N/A	N/A	N/A					N/A			

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
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	36	Separation is maintained between intrinsically safe and non-intrinsically safe circuits in common distribution boxes or relay cubicles.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	37	As applicable, short circuit protection of the power supply is in accordance with documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	38	Special conditions of use (if applicable) are complied with.												
	39	Cables/Cores not in use are correctly terminated.									N/A			
	40	Obstructions adjacent to flameproof flanged joints are in accordance with IEC 60079-14.			N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	41	Variable voltage / frequency installation in accordance with documentation.					N/A	N/A	N/A	N/A	N/A			
	42	No evidence of leakage of filling material.	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A			
	43	Protective liquid is between minimum and maximum permissible levels.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	44	Protective liquid is compliant with IEC 60079-6 clause 4.2.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	45	No sign of deterioration of protective liquid by dust or humidity.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	46	No evidence of loosening of external fasteners.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	47	No evidence of loss of protective liquid.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	48	No exposure of encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure in adhesion or softening.	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A			
	49	Protective gas inlet temperature is below maximum specified.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	50	Ducts, pipes and enclosures are in good condition.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	51	Protective gas is substantially free from contaminants.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	52	Protective gas pressure and/or flow is adequate.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	53	Pressure and/or flow indicators, alarms and interlocks function correctly.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	54	Conditions of spark and practical barriers of ducts for exhausting the gas in hazardous area are satisfied.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
C - EN	55	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors.												

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
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V	56	No undue accumulation of dust and dirt or humidity.												
	57	Electrical installation is clean and dry.										N/A		
COMMENTS:														
VALIDATION ROLES		SUB-CONTRACTOR	CONTRACTOR		TPI				COMPANY					
NAME														
SIGNATURE														
POSITION														
DATE														

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)	 
	Construction	
	Hazardous Area Ex Equipment Inspection Checklist	
A-ITR-Ex-021		




TASK NO.:	T-00193-1593	PHASE:	Construction												
SYSTEM NO.:	ISND-627-30	SYSTEM DESCRIPTION:	POWER GENERATION, DISTRIBUTION SYSTEM												
SUBSYSTEM NO.:	ISND-627-30-10	SUBSYSTEM DESCRIPTION:	Ex Equipment Certification												
FACILITY:	ISND-WHP-S007	AREA:	S01 - MAIN DECK												
TAG NO.:	627-30-DB-02-8R-SKT1-JB-Ex	TAG DESCRIPTION:	Junction Box												
APPLICABLE PROCEDURE:	YPS1-2-25-0001	ACCEPTANCE CRITERIA:	YPS1-2-05-0001												
AREA DATA		EQUIPMENT DETAILS													
Location:		Ex Certificate:										Cert. Body:			
Layout Drawing:	S007-2-67-0006-001	Model:										Gas Group:			
Zone:		Serial Number:										Temp Class:			
Gas Group:		Ex Concept:										IP Rating:			
Temp Class:		Manufacturer:										Product Date:			
	No.	Description	Ex de	Ex d	Ex e	Ex n	Ex i	Ex q	Ex o	Ex m	Ex p	OK	NA	PL	
A - EQUIPMENT	1	Equipment is appropriate to the EPL/Zone requirements of the location.													
	2	Equipment group correct.					N/A								
	3	Equipment temperature class correct.													
	4	Circuit and/or equipment category and group correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	5	Equipment identification is available and correct.													
	6	Equipment installed is that specified in the documentation – fixed equipment only.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	7	Enclosure, glass to-metal sealing gaskets and/or compounds are satisfactory.						N/A		N/A					
	8	There are no unauthorized modifications.													
	9	Lamp rating, type and position are correct.					N/A	N/A	N/A	N/A					
	10	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in accordance with the certification requirements and securely earthed where required.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	11	Bolts, cable glands and MCTs (direct and indirect) and blanking elements are of the correct type and are complete and properly torqued.					N/A				N/A				
	12	Flange faces are clean and undamaged and gaskets, if any, are satisfactory.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	13	Flange gap dimensions are within maximal values permitted.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	14	Electrical connections are tight and properly torqued									N/A				

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
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B - I NS TA LL AT IO N	15	Condition of enclosure gaskets is satisfactory.		N/A			N/A				N/A			
	16	Enclosed-break and hermetically sealed devices are undamaged.	N/A	N/A	N/A		N/A				N/A			
	17	Restricted breathing enclosure is satisfactory.	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A			
	18	Motor fans have sufficient clearance to enclosure and/ or covers.					N/A	N/A	N/A	N/A	N/A			
	19	Breathing and draining devices are satisfactory.					N/A			N/A	N/A			
	20	Printed circuit boards are clean and undamaged.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	21	Type of cable is appropriate and installed in accordance with documentation.												
	22	Cable screens are earthed in accordance with the documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	23	There is no obvious damage to cables.												
	24	Sealing of trunking, ducts, pipes and/ or conduits is satisfactory.									N/A			
	25	Stopping boxes and cable boxes are correctly filled.			N/A	N/A	N/A				N/A			
	26	Integrity of conduit system and interface with mixed system is maintained.					N/A				N/A			
	27	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section).					N/A							
	28	Fault loop impedance (TN systems) or earthing resistance is satisfactory.					N/A							
	29	Insulation resistance is satisfactory.					N/A				N/A			
	30	Automatic electrical protective devices operate within permitted limits.					N/A							
	31	Automatic electrical protective devices are set correctly (auto re-set not possible).					N/A							
	32	Points to point connections are all correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	33	Earth continuity is satisfactory (e.g. Connections are tight, conductors are of sufficient cross-section) for non-galvanically isolated circuits.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	34	Earth connections maintain the integrity of the type of protection.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	35	Intrinsically safe circuit earthing and insulation resistance is satisfactory.	N/A	N/A	N/A	N/A					N/A			

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											




	36	Separation is maintained between intrinsically safe and non-intrinsically safe circuits in common distribution boxes or relay cubicles.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	37	As applicable, short circuit protection of the power supply is in accordance with documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	38	Special conditions of use (if applicable) are complied with.												
	39	Cables/Cores not in use are correctly terminated.									N/A			
	40	Obstructions adjacent to flameproof flanged joints are in accordance with IEC 60079-14.			N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	41	Variable voltage / frequency installation in accordance with documentation.					N/A	N/A	N/A	N/A	N/A			
	42	No evidence of leakage of filling material.	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A			
	43	Protective liquid is between minimum and maximum permissible levels.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	44	Protective liquid is compliant with IEC 60079-6 clause 4.2.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	45	No sign of deterioration of protective liquid by dust or humidity.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	46	No evidence of loosening of external fasteners.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	47	No evidence of loss of protective liquid.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	48	No exposure of encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure in adhesion or softening.	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A			
	49	Protective gas inlet temperature is below maximum specified.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	50	Ducts, pipes and enclosures are in good condition.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	51	Protective gas is substantially free from contaminants.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	52	Protective gas pressure and/or flow is adequate.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	53	Pressure and/or flow indicators, alarms and interlocks function correctly.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	54	Conditions of spark and practical barriers of ducts for exhausting the gas in hazardous area are satisfied.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
C - EN	55	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors.												

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											




V	56	No undue accumulation of dust and dirt or humidity.												
	57	Electrical installation is clean and dry.										N/A		

COMMENTS:




VALIDATION ROLES	SUB-CONTRACTOR	CONTRACTOR	TPI	COMPANY
NAME				
SIGNATURE				
POSITION				
DATE				

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)	 
	Construction	
	Hazardous Area Ex Equipment Inspection Checklist	
A-ITR-Ex-021		




TASK NO.:	T-00193-1522	PHASE:	Construction												
SYSTEM NO.:	ISND-627-30	SYSTEM DESCRIPTION:	POWER GENERATION, DISTRIBUTION SYSTEM												
SUBSYSTEM NO.:	ISND-627-30-10	SUBSYSTEM DESCRIPTION:	Ex Equipment Certification												
FACILITY:	ISND-WHP-S007	AREA:	S01 - MAIN DECK												
TAG NO.:	627-30-DB-02-8R-SKT2-Ex	TAG DESCRIPTION:	Socket Outlet												
APPLICABLE PROCEDURE:	YPS1-2-25-0001	ACCEPTANCE CRITERIA:	YPS1-2-05-0001												
AREA DATA		EQUIPMENT DETAILS													
Location:		Ex Certificate:										Cert. Body:			
Layout Drawing:	S007-2-67-0005-001	Model:										Gas Group:			
Zone:		Serial Number:										Temp Class:			
Gas Group:		Ex Concept:										IP Rating:			
Temp Class:		Manufacturer:										Product Date:			
	No.	Description	Ex de	Ex d	Ex e	Ex n	Ex i	Ex q	Ex o	Ex m	Ex p	OK	NA	PL	
A - EQUIPMENT	1	Equipment is appropriate to the EPL/Zone requirements of the location.													
	2	Equipment group correct.					N/A								
	3	Equipment temperature class correct.													
	4	Circuit and/or equipment category and group correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	5	Equipment identification is available and correct.													
	6	Equipment installed is that specified in the documentation – fixed equipment only.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	7	Enclosure, glass to-metal sealing gaskets and/or compounds are satisfactory.						N/A		N/A					
	8	There are no unauthorized modifications.													
	9	Lamp rating, type and position are correct.					N/A	N/A	N/A	N/A					
	10	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in accordance with the certification requirements and securely earthed where required.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	11	Bolts, cable glands and MCTs (direct and indirect) and blanking elements are of the correct type and are complete and properly torqued.					N/A				N/A				
	12	Flange faces are clean and undamaged and gaskets, if any, are satisfactory.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	13	Flange gap dimensions are within maximal values permitted.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	14	Electrical connections are tight and properly torqued									N/A				

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											




B - I NS TA LL AT IO N	15	Condition of enclosure gaskets is satisfactory.		N/A			N/A				N/A			
	16	Enclosed-break and hermetically sealed devices are undamaged.	N/A	N/A	N/A		N/A				N/A			
	17	Restricted breathing enclosure is satisfactory.	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A			
	18	Motor fans have sufficient clearance to enclosure and/ or covers.					N/A	N/A	N/A	N/A	N/A			
	19	Breathing and draining devices are satisfactory.					N/A			N/A	N/A			
	20	Printed circuit boards are clean and undamaged.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	21	Type of cable is appropriate and installed in accordance with documentation.												
	22	Cable screens are earthed in accordance with the documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	23	There is no obvious damage to cables.												
	24	Sealing of trunking, ducts, pipes and/ or conduits is satisfactory.									N/A			
	25	Stopping boxes and cable boxes are correctly filled.			N/A	N/A	N/A				N/A			
	26	Integrity of conduit system and interface with mixed system is maintained.					N/A				N/A			
	27	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section).					N/A							
	28	Fault loop impedance (TN systems) or earthing resistance is satisfactory.					N/A							
	29	Insulation resistance is satisfactory.					N/A				N/A			
	30	Automatic electrical protective devices operate within permitted limits.					N/A							
	31	Automatic electrical protective devices are set correctly (auto re-set not possible).					N/A							
	32	Points to point connections are all correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	33	Earth continuity is satisfactory (e.g. Connections are tight, conductors are of sufficient cross-section) for non-galvanically isolated circuits.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	34	Earth connections maintain the integrity of the type of protection.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	35	Intrinsically safe circuit earthing and insulation resistance is satisfactory.	N/A	N/A	N/A	N/A					N/A			

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
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	36	Separation is maintained between intrinsically safe and non-intrinsically safe circuits in common distribution boxes or relay cubicles.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	37	As applicable, short circuit protection of the power supply is in accordance with documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	38	Special conditions of use (if applicable) are complied with.												
	39	Cables/Cores not in use are correctly terminated.									N/A			
	40	Obstructions adjacent to flameproof flanged joints are in accordance with IEC 60079-14.			N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	41	Variable voltage / frequency installation in accordance with documentation.					N/A	N/A	N/A	N/A	N/A			
	42	No evidence of leakage of filling material.	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A			
	43	Protective liquid is between minimum and maximum permissible levels.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	44	Protective liquid is compliant with IEC 60079-6 clause 4.2.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	45	No sign of deterioration of protective liquid by dust or humidity.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	46	No evidence of loosening of external fasteners.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	47	No evidence of loss of protective liquid.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	48	No exposure of encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure in adhesion or softening.	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A			
	49	Protective gas inlet temperature is below maximum specified.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	50	Ducts, pipes and enclosures are in good condition.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	51	Protective gas is substantially free from contaminants.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	52	Protective gas pressure and/or flow is adequate.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	53	Pressure and/or flow indicators, alarms and interlocks function correctly.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	54	Conditions of spark and practical barriers of ducts for exhausting the gas in hazardous area are satisfied.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
C - EN	55	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors.												

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)		 
	Construction		
	Hazardous Area Ex Equipment Inspection Checklist		
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V	56	No undue accumulation of dust and dirt or humidity.													
	57	Electrical installation is clean and dry.										N/A			
COMMENTS:															
VALIDATION ROLES		SUB-CONTRACTOR	CONTRACTOR		TPI				COMPANY						
NAME															
SIGNATURE															
POSITION															
DATE															

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)	 
	Construction	
	Hazardous Area Ex Equipment Inspection Checklist	
A-ITR-Ex-021		




TASK NO.:	T-00193-1530	PHASE:	Construction												
SYSTEM NO.:	ISND-627-30	SYSTEM DESCRIPTION:	POWER GENERATION, DISTRIBUTION SYSTEM												
SUBSYSTEM NO.:	ISND-627-30-10	SUBSYSTEM DESCRIPTION:	Ex Equipment Certification												
FACILITY:	ISND-WHP-S007	AREA:	S01 - MAIN DECK												
TAG NO.:	627-30-DB-02-8R-SKT2-JB-Ex	TAG DESCRIPTION:	Junction Box												
APPLICABLE PROCEDURE:	YPS1-2-25-0001	ACCEPTANCE CRITERIA:	YPS1-2-05-0001												
AREA DATA		EQUIPMENT DETAILS													
Location:		Ex Certificate:										Cert. Body:			
Layout Drawing:	S007-2-67-0005-001	Model:										Gas Group:			
Zone:		Serial Number:										Temp Class:			
Gas Group:		Ex Concept:										IP Rating:			
Temp Class:		Manufacturer:										Product Date:			
	No.	Description	Ex de	Ex d	Ex e	Ex n	Ex i	Ex q	Ex o	Ex m	Ex p	OK	NA	PL	
A - EQUIPMENT	1	Equipment is appropriate to the EPL/Zone requirements of the location.													
	2	Equipment group correct.					N/A								
	3	Equipment temperature class correct.													
	4	Circuit and/or equipment category and group correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	5	Equipment identification is available and correct.													
	6	Equipment installed is that specified in the documentation – fixed equipment only.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	7	Enclosure, glass to-metal sealing gaskets and/or compounds are satisfactory.						N/A		N/A					
	8	There are no unauthorized modifications.													
	9	Lamp rating, type and position are correct.					N/A	N/A	N/A	N/A					
	10	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in accordance with the certification requirements and securely earthed where required.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	11	Bolts, cable glands and MCTs (direct and indirect) and blanking elements are of the correct type and are complete and properly torqued.					N/A				N/A				
	12	Flange faces are clean and undamaged and gaskets, if any, are satisfactory.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	13	Flange gap dimensions are within maximal values permitted.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	14	Electrical connections are tight and properly torqued									N/A				

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											




B - I NS T A L L A T I O N	15	Condition of enclosure gaskets is satisfactory.		N/A			N/A				N/A			
	16	Enclosed-break and hermetically sealed devices are undamaged.	N/A	N/A	N/A		N/A				N/A			
	17	Restricted breathing enclosure is satisfactory.	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A			
	18	Motor fans have sufficient clearance to enclosure and/ or covers.					N/A	N/A	N/A	N/A	N/A			
	19	Breathing and draining devices are satisfactory.					N/A			N/A	N/A			
	20	Printed circuit boards are clean and undamaged.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	21	Type of cable is appropriate and installed in accordance with documentation.												
	22	Cable screens are earthed in accordance with the documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	23	There is no obvious damage to cables.												
	24	Sealing of trunking, ducts, pipes and/ or conduits is satisfactory.									N/A			
	25	Stopping boxes and cable boxes are correctly filled.			N/A	N/A	N/A				N/A			
	26	Integrity of conduit system and interface with mixed system is maintained.					N/A				N/A			
	27	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section).					N/A							
	28	Fault loop impedance (TN systems) or earthing resistance is satisfactory.					N/A							
	29	Insulation resistance is satisfactory.					N/A				N/A			
	30	Automatic electrical protective devices operate within permitted limits.					N/A							
	31	Automatic electrical protective devices are set correctly (auto re-set not possible).					N/A							
	32	Points to point connections are all correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	33	Earth continuity is satisfactory (e.g. Connections are tight, conductors are of sufficient cross-section) for non-galvanically isolated circuits.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	34	Earth connections maintain the integrity of the type of protection.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	35	Intrinsically safe circuit earthing and insulation resistance is satisfactory.	N/A	N/A	N/A	N/A					N/A			

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
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	36	Separation is maintained between intrinsically safe and non-intrinsically safe circuits in common distribution boxes or relay cubicles.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	37	As applicable, short circuit protection of the power supply is in accordance with documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	38	Special conditions of use (if applicable) are complied with.												
	39	Cables/Cores not in use are correctly terminated.									N/A			
	40	Obstructions adjacent to flameproof flanged joints are in accordance with IEC 60079-14.			N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	41	Variable voltage / frequency installation in accordance with documentation.					N/A	N/A	N/A	N/A	N/A			
	42	No evidence of leakage of filling material.	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A			
	43	Protective liquid is between minimum and maximum permissible levels.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	44	Protective liquid is compliant with IEC 60079-6 clause 4.2.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	45	No sign of deterioration of protective liquid by dust or humidity.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	46	No evidence of loosening of external fasteners.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	47	No evidence of loss of protective liquid.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	48	No exposure of encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure in adhesion or softening.	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A			
	49	Protective gas inlet temperature is below maximum specified.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	50	Ducts, pipes and enclosures are in good condition.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	51	Protective gas is substantially free from contaminants.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	52	Protective gas pressure and/or flow is adequate.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	53	Pressure and/or flow indicators, alarms and interlocks function correctly.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	54	Conditions of spark and practical barriers of ducts for exhausting the gas in hazardous area are satisfied.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
C - EN	55	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors.												

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
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V	56	No undue accumulation of dust and dirt or humidity.												
	57	Electrical installation is clean and dry.										N/A		
COMMENTS:														
VALIDATION ROLES		SUB-CONTRACTOR	CONTRACTOR		TPI				COMPANY					
NAME														
SIGNATURE														
POSITION														
DATE														

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)	 
	Construction	
	Hazardous Area Ex Equipment Inspection Checklist	
A-ITR-Ex-021		




TASK NO.:	T-00193-1388	PHASE:	Construction												
SYSTEM NO.:	ISND-627-30	SYSTEM DESCRIPTION:	POWER GENERATION, DISTRIBUTION SYSTEM												
SUBSYSTEM NO.:	ISND-627-30-10	SUBSYSTEM DESCRIPTION:	Ex Equipment Certification												
FACILITY:	ISND-WHP-S007	AREA:	S01 - MAIN DECK												
TAG NO.:	627-30-DB-02-8R-SKT3-Ex	TAG DESCRIPTION:	Socket Outlet												
APPLICABLE PROCEDURE:	YPS1-2-25-0001	ACCEPTANCE CRITERIA:	YPS1-2-05-0001												
AREA DATA		EQUIPMENT DETAILS													
Location:		Ex Certificate:										Cert. Body:			
Layout Drawing:	S007-2-67-0005-001	Model:										Gas Group:			
Zone:		Serial Number:										Temp Class:			
Gas Group:		Ex Concept:										IP Rating:			
Temp Class:		Manufacturer:										Product Date:			
	No.	Description	Ex de	Ex d	Ex e	Ex n	Ex i	Ex q	Ex o	Ex m	Ex p	OK	NA	PL	
A - EQUIPMENT	1	Equipment is appropriate to the EPL/Zone requirements of the location.													
	2	Equipment group correct.					N/A								
	3	Equipment temperature class correct.													
	4	Circuit and/or equipment category and group correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	5	Equipment identification is available and correct.													
	6	Equipment installed is that specified in the documentation – fixed equipment only.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	7	Enclosure, glass to-metal sealing gaskets and/or compounds are satisfactory.						N/A		N/A					
	8	There are no unauthorized modifications.													
	9	Lamp rating, type and position are correct.					N/A	N/A	N/A	N/A					
	10	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in accordance with the certification requirements and securely earthed where required.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	11	Bolts, cable glands and MCTs (direct and indirect) and blanking elements are of the correct type and are complete and properly torqued.					N/A				N/A				
	12	Flange faces are clean and undamaged and gaskets, if any, are satisfactory.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	13	Flange gap dimensions are within maximal values permitted.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	14	Electrical connections are tight and properly torqued									N/A				

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											




B - I NS T A L L A T I O N	15	Condition of enclosure gaskets is satisfactory.		N/A			N/A				N/A			
	16	Enclosed-break and hermetically sealed devices are undamaged.	N/A	N/A	N/A		N/A				N/A			
	17	Restricted breathing enclosure is satisfactory.	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A			
	18	Motor fans have sufficient clearance to enclosure and/ or covers.					N/A	N/A	N/A	N/A	N/A			
	19	Breathing and draining devices are satisfactory.					N/A			N/A	N/A			
	20	Printed circuit boards are clean and undamaged.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	21	Type of cable is appropriate and installed in accordance with documentation.												
	22	Cable screens are earthed in accordance with the documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	23	There is no obvious damage to cables.												
	24	Sealing of trunking, ducts, pipes and/ or conduits is satisfactory.									N/A			
	25	Stopping boxes and cable boxes are correctly filled.			N/A	N/A	N/A				N/A			
	26	Integrity of conduit system and interface with mixed system is maintained.					N/A				N/A			
	27	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section).					N/A							
	28	Fault loop impedance (TN systems) or earthing resistance is satisfactory.					N/A							
	29	Insulation resistance is satisfactory.					N/A				N/A			
	30	Automatic electrical protective devices operate within permitted limits.					N/A							
	31	Automatic electrical protective devices are set correctly (auto re-set not possible).					N/A							
	32	Points to point connections are all correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	33	Earth continuity is satisfactory (e.g. Connections are tight, conductors are of sufficient cross-section) for non-galvanically isolated circuits.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	34	Earth connections maintain the integrity of the type of protection.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	35	Intrinsically safe circuit earthing and insulation resistance is satisfactory.	N/A	N/A	N/A	N/A					N/A			

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											




	36	Separation is maintained between intrinsically safe and non-intrinsically safe circuits in common distribution boxes or relay cubicles.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	37	As applicable, short circuit protection of the power supply is in accordance with documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	38	Special conditions of use (if applicable) are complied with.												
	39	Cables/Cores not in use are correctly terminated.									N/A			
	40	Obstructions adjacent to flameproof flanged joints are in accordance with IEC 60079-14.			N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	41	Variable voltage / frequency installation in accordance with documentation.					N/A	N/A	N/A	N/A	N/A			
	42	No evidence of leakage of filling material.	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A			
	43	Protective liquid is between minimum and maximum permissible levels.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	44	Protective liquid is compliant with IEC 60079-6 clause 4.2.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	45	No sign of deterioration of protective liquid by dust or humidity.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	46	No evidence of loosening of external fasteners.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	47	No evidence of loss of protective liquid.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	48	No exposure of encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure in adhesion or softening.	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A			
	49	Protective gas inlet temperature is below maximum specified.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	50	Ducts, pipes and enclosures are in good condition.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	51	Protective gas is substantially free from contaminants.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	52	Protective gas pressure and/or flow is adequate.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	53	Pressure and/or flow indicators, alarms and interlocks function correctly.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	54	Conditions of spark and practical barriers of ducts for exhausting the gas in hazardous area are satisfied.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
C - EN	55	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors.												

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											




V	56	No undue accumulation of dust and dirt or humidity.												
	57	Electrical installation is clean and dry.										N/A		
COMMENTS:														
VALIDATION ROLES		SUB-CONTRACTOR	CONTRACTOR		TPI				COMPANY					
NAME														
SIGNATURE														
POSITION														
DATE														

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)	 
	Construction	
	Hazardous Area Ex Equipment Inspection Checklist	
A-ITR-Ex-021		




TASK NO.:	T-00193-1463	PHASE:	Construction												
SYSTEM NO.:	ISND-627-30	SYSTEM DESCRIPTION:	POWER GENERATION, DISTRIBUTION SYSTEM												
SUBSYSTEM NO.:	ISND-627-30-10	SUBSYSTEM DESCRIPTION:	Ex Equipment Certification												
FACILITY:	ISND-WHP-S007	AREA:	S01 - MAIN DECK												
TAG NO.:	627-30-DB-02-8R-SKT3-JB-Ex	TAG DESCRIPTION:	Junction Box												
APPLICABLE PROCEDURE:	YPS1-2-25-0001	ACCEPTANCE CRITERIA:	YPS1-2-05-0001												
AREA DATA		EQUIPMENT DETAILS													
Location:		Ex Certificate:										Cert. Body:			
Layout Drawing:	S007-2-67-0005-001	Model:										Gas Group:			
Zone:		Serial Number:										Temp Class:			
Gas Group:		Ex Concept:										IP Rating:			
Temp Class:		Manufacturer:										Product Date:			
	No.	Description	Ex de	Ex d	Ex e	Ex n	Ex i	Ex q	Ex o	Ex m	Ex p	OK	NA	PL	
A - EQUIPMENT	1	Equipment is appropriate to the EPL/Zone requirements of the location.													
	2	Equipment group correct.					N/A								
	3	Equipment temperature class correct.													
	4	Circuit and/or equipment category and group correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	5	Equipment identification is available and correct.													
	6	Equipment installed is that specified in the documentation – fixed equipment only.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	7	Enclosure, glass to-metal sealing gaskets and/or compounds are satisfactory.						N/A		N/A					
	8	There are no unauthorized modifications.													
	9	Lamp rating, type and position are correct.					N/A	N/A	N/A	N/A					
	10	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in accordance with the certification requirements and securely earthed where required.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	11	Bolts, cable glands and MCTs (direct and indirect) and blanking elements are of the correct type and are complete and properly torqued.					N/A				N/A				
	12	Flange faces are clean and undamaged and gaskets, if any, are satisfactory.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	13	Flange gap dimensions are within maximal values permitted.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	14	Electrical connections are tight and properly torqued									N/A				

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											

B - I NS TA LL AT IO N	15	Condition of enclosure gaskets is satisfactory.		N/A			N/A				N/A			
	16	Enclosed-break and hermetically sealed devices are undamaged.	N/A	N/A	N/A		N/A				N/A			
	17	Restricted breathing enclosure is satisfactory.	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A			
	18	Motor fans have sufficient clearance to enclosure and/ or covers.					N/A	N/A	N/A	N/A	N/A			
	19	Breathing and draining devices are satisfactory.					N/A			N/A	N/A			
	20	Printed circuit boards are clean and undamaged.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	21	Type of cable is appropriate and installed in accordance with documentation.												
	22	Cable screens are earthed in accordance with the documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	23	There is no obvious damage to cables.												
	24	Sealing of trunking, ducts, pipes and/ or conduits is satisfactory.									N/A			
	25	Stopping boxes and cable boxes are correctly filled.			N/A	N/A	N/A				N/A			
	26	Integrity of conduit system and interface with mixed system is maintained.					N/A				N/A			
	27	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section).					N/A							
	28	Fault loop impedance (TN systems) or earthing resistance is satisfactory.					N/A							
	29	Insulation resistance is satisfactory.					N/A				N/A			
	30	Automatic electrical protective devices operate within permitted limits.					N/A							
	31	Automatic electrical protective devices are set correctly (auto re-set not possible).					N/A							
	32	Points to point connections are all correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	33	Earth continuity is satisfactory (e.g. Connections are tight, conductors are of sufficient cross-section) for non-galvanically isolated circuits.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	34	Earth connections maintain the integrity of the type of protection.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	35	Intrinsically safe circuit earthing and insulation resistance is satisfactory.	N/A	N/A	N/A	N/A					N/A			

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
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	36	Separation is maintained between intrinsically safe and non-intrinsically safe circuits in common distribution boxes or relay cubicles.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	37	As applicable, short circuit protection of the power supply is in accordance with documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	38	Special conditions of use (if applicable) are complied with.												
	39	Cables/Cores not in use are correctly terminated.									N/A			
	40	Obstructions adjacent to flameproof flanged joints are in accordance with IEC 60079-14.			N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	41	Variable voltage / frequency installation in accordance with documentation.					N/A	N/A	N/A	N/A	N/A			
	42	No evidence of leakage of filling material.	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A			
	43	Protective liquid is between minimum and maximum permissible levels.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	44	Protective liquid is compliant with IEC 60079-6 clause 4.2.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	45	No sign of deterioration of protective liquid by dust or humidity.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	46	No evidence of loosening of external fasteners.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	47	No evidence of loss of protective liquid.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	48	No exposure of encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure in adhesion or softening.	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A			
	49	Protective gas inlet temperature is below maximum specified.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	50	Ducts, pipes and enclosures are in good condition.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	51	Protective gas is substantially free from contaminants.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	52	Protective gas pressure and/or flow is adequate.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	53	Pressure and/or flow indicators, alarms and interlocks function correctly.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	54	Conditions of spark and practical barriers of ducts for exhausting the gas in hazardous area are satisfied.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
C - EN	55	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors.												

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											




V	56	No undue accumulation of dust and dirt or humidity.												
	57	Electrical installation is clean and dry.									N/A			

COMMENTS:




VALIDATION ROLES	SUB-CONTRACTOR	CONTRACTOR	TPI	COMPANY
NAME				
SIGNATURE				
POSITION				
DATE				

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)	 
	Construction	
	Hazardous Area Ex Equipment Inspection Checklist	
A-ITR-Ex-021		




TASK NO.:	T-00193-1688	PHASE:	Construction												
SYSTEM NO.:	ISND-627-30	SYSTEM DESCRIPTION:	POWER GENERATION, DISTRIBUTION SYSTEM												
SUBSYSTEM NO.:	ISND-627-30-10	SUBSYSTEM DESCRIPTION:	Ex Equipment Certification												
FACILITY:	ISND-WHP-S007	AREA:	S01 - MAIN DECK												
TAG NO.:	627-30-DB-02-8R-SKT4-JB-Ex	TAG DESCRIPTION:	Junction Box												
APPLICABLE PROCEDURE:	YPS1-2-25-0001	ACCEPTANCE CRITERIA:	YPS1-2-05-0001												
AREA DATA		EQUIPMENT DETAILS													
Location:		Ex Certificate:										Cert. Body:			
Layout Drawing:	S007-2-67-0005-001	Model:										Gas Group:			
Zone:		Serial Number:										Temp Class:			
Gas Group:		Ex Concept:										IP Rating:			
Temp Class:		Manufacturer:										Product Date:			
	No.	Description	Ex de	Ex d	Ex e	Ex n	Ex i	Ex q	Ex o	Ex m	Ex p	OK	NA	PL	
A - EQUIPMENT	1	Equipment is appropriate to the EPL/Zone requirements of the location.													
	2	Equipment group correct.					N/A								
	3	Equipment temperature class correct.													
	4	Circuit and/or equipment category and group correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	5	Equipment identification is available and correct.													
	6	Equipment installed is that specified in the documentation – fixed equipment only.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	7	Enclosure, glass to-metal sealing gaskets and/or compounds are satisfactory.						N/A		N/A					
	8	There are no unauthorized modifications.													
	9	Lamp rating, type and position are correct.					N/A	N/A	N/A	N/A					
	10	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in accordance with the certification requirements and securely earthed where required.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	11	Bolts, cable glands and MCTs (direct and indirect) and blanking elements are of the correct type and are complete and properly torqued.					N/A				N/A				
	12	Flange faces are clean and undamaged and gaskets, if any, are satisfactory.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	13	Flange gap dimensions are within maximal values permitted.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	14	Electrical connections are tight and properly torqued									N/A				

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											

B - I NS TA LL AT IO N	15	Condition of enclosure gaskets is satisfactory.		N/A			N/A				N/A			
	16	Enclosed-break and hermetically sealed devices are undamaged.	N/A	N/A	N/A		N/A				N/A			
	17	Restricted breathing enclosure is satisfactory.	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A			
	18	Motor fans have sufficient clearance to enclosure and/ or covers.					N/A	N/A	N/A	N/A	N/A			
	19	Breathing and draining devices are satisfactory.					N/A			N/A	N/A			
	20	Printed circuit boards are clean and undamaged.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	21	Type of cable is appropriate and installed in accordance with documentation.												
	22	Cable screens are earthed in accordance with the documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	23	There is no obvious damage to cables.												
	24	Sealing of trunking, ducts, pipes and/ or conduits is satisfactory.									N/A			
	25	Stopping boxes and cable boxes are correctly filled.			N/A	N/A	N/A				N/A			
	26	Integrity of conduit system and interface with mixed system is maintained.					N/A				N/A			
	27	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section).					N/A							
	28	Fault loop impedance (TN systems) or earthing resistance is satisfactory.					N/A							
	29	Insulation resistance is satisfactory.					N/A				N/A			
	30	Automatic electrical protective devices operate within permitted limits.					N/A							
	31	Automatic electrical protective devices are set correctly (auto re-set not possible).					N/A							
	32	Points to point connections are all correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	33	Earth continuity is satisfactory (e.g. Connections are tight, conductors are of sufficient cross-section) for non-galvanically isolated circuits.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	34	Earth connections maintain the integrity of the type of protection.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	35	Intrinsically safe circuit earthing and insulation resistance is satisfactory.	N/A	N/A	N/A	N/A					N/A			

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											




	36	Separation is maintained between intrinsically safe and non-intrinsically safe circuits in common distribution boxes or relay cubicles.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	37	As applicable, short circuit protection of the power supply is in accordance with documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	38	Special conditions of use (if applicable) are complied with.												
	39	Cables/Cores not in use are correctly terminated.									N/A			
	40	Obstructions adjacent to flameproof flanged joints are in accordance with IEC 60079-14.			N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	41	Variable voltage / frequency installation in accordance with documentation.					N/A	N/A	N/A	N/A	N/A			
	42	No evidence of leakage of filling material.	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A			
	43	Protective liquid is between minimum and maximum permissible levels.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	44	Protective liquid is compliant with IEC 60079-6 clause 4.2.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	45	No sign of deterioration of protective liquid by dust or humidity.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	46	No evidence of loosening of external fasteners.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	47	No evidence of loss of protective liquid.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	48	No exposure of encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure in adhesion or softening.	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A			
	49	Protective gas inlet temperature is below maximum specified.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	50	Ducts, pipes and enclosures are in good condition.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	51	Protective gas is substantially free from contaminants.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	52	Protective gas pressure and/or flow is adequate.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	53	Pressure and/or flow indicators, alarms and interlocks function correctly.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	54	Conditions of spark and practical barriers of ducts for exhausting the gas in hazardous area are satisfied.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
C - EN	55	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors.												

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											




V	56	No undue accumulation of dust and dirt or humidity.												
	57	Electrical installation is clean and dry.									N/A			

COMMENTS:




VALIDATION ROLES	SUB-CONTRACTOR	CONTRACTOR	TPI	COMPANY
NAME				
SIGNATURE				
POSITION				
DATE				

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)	 
	Construction	
	Hazardous Area Ex Equipment Inspection Checklist	
A-ITR-Ex-021		




TASK NO.:	T-00193-1417	PHASE:	Construction												
SYSTEM NO.:	ISND-627-30	SYSTEM DESCRIPTION:	POWER GENERATION, DISTRIBUTION SYSTEM												
SUBSYSTEM NO.:	ISND-627-30-10	SUBSYSTEM DESCRIPTION:	Ex Equipment Certification												
FACILITY:	ISND-WHP-S007	AREA:	S01 - MAIN DECK												
TAG NO.:	627-30-DB-02-8R-SKT5-Ex	TAG DESCRIPTION:	Socket Outlet												
APPLICABLE PROCEDURE:	YPS1-2-25-0001	ACCEPTANCE CRITERIA:	YPS1-2-05-0001												
AREA DATA		EQUIPMENT DETAILS													
Location:		Ex Certificate:											Cert. Body:		
Layout Drawing:	S007-2-67-0005-001	Model:											Gas Group:		
Zone:		Serial Number:											Temp Class:		
Gas Group:		Ex Concept:											IP Rating:		
Temp Class:		Manufacturer:											Product Date:		
	No.	Description	Ex de	Ex d	Ex e	Ex n	Ex i	Ex q	Ex o	Ex m	Ex p	OK	NA	PL	
A - EQUIPMENT	1	Equipment is appropriate to the EPL/Zone requirements of the location.													
	2	Equipment group correct.					N/A								
	3	Equipment temperature class correct.													
	4	Circuit and/or equipment category and group correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	5	Equipment identification is available and correct.													
	6	Equipment installed is that specified in the documentation – fixed equipment only.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	7	Enclosure, glass to-metal sealing gaskets and/or compounds are satisfactory.						N/A		N/A					
	8	There are no unauthorized modifications.													
	9	Lamp rating, type and position are correct.					N/A	N/A	N/A	N/A					
	10	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in accordance with the certification requirements and securely earthed where required.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	11	Bolts, cable glands and MCTs (direct and indirect) and blanking elements are of the correct type and are complete and properly torqued.					N/A				N/A				
	12	Flange faces are clean and undamaged and gaskets, if any, are satisfactory.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	13	Flange gap dimensions are within maximal values permitted.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	14	Electrical connections are tight and properly torqued									N/A				

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											

B - I NS T A L L A T I O N	15	Condition of enclosure gaskets is satisfactory.		N/A			N/A				N/A			
	16	Enclosed-break and hermetically sealed devices are undamaged.	N/A	N/A	N/A		N/A				N/A			
	17	Restricted breathing enclosure is satisfactory.	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A			
	18	Motor fans have sufficient clearance to enclosure and/ or covers.					N/A	N/A	N/A	N/A	N/A			
	19	Breathing and draining devices are satisfactory.					N/A			N/A	N/A			
	20	Printed circuit boards are clean and undamaged.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	21	Type of cable is appropriate and installed in accordance with documentation.												
	22	Cable screens are earthed in accordance with the documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	23	There is no obvious damage to cables.												
	24	Sealing of trunking, ducts, pipes and/ or conduits is satisfactory.									N/A			
	25	Stopping boxes and cable boxes are correctly filled.			N/A	N/A	N/A				N/A			
	26	Integrity of conduit system and interface with mixed system is maintained.					N/A				N/A			
	27	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section).					N/A							
	28	Fault loop impedance (TN systems) or earthing resistance is satisfactory.					N/A							
	29	Insulation resistance is satisfactory.					N/A				N/A			
	30	Automatic electrical protective devices operate within permitted limits.					N/A							
	31	Automatic electrical protective devices are set correctly (auto re-set not possible).					N/A							
	32	Points to point connections are all correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	33	Earth continuity is satisfactory (e.g. Connections are tight, conductors are of sufficient cross-section) for non-galvanically isolated circuits.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	34	Earth connections maintain the integrity of the type of protection.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	35	Intrinsically safe circuit earthing and insulation resistance is satisfactory.	N/A	N/A	N/A	N/A					N/A			

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
A-ITR-Ex-021											




	36	Separation is maintained between intrinsically safe and non-intrinsically safe circuits in common distribution boxes or relay cubicles.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	37	As applicable, short circuit protection of the power supply is in accordance with documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	38	Special conditions of use (if applicable) are complied with.												
	39	Cables/Cores not in use are correctly terminated.									N/A			
	40	Obstructions adjacent to flameproof flanged joints are in accordance with IEC 60079-14.			N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	41	Variable voltage / frequency installation in accordance with documentation.					N/A	N/A	N/A	N/A	N/A			
	42	No evidence of leakage of filling material.	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A			
	43	Protective liquid is between minimum and maximum permissible levels.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	44	Protective liquid is compliant with IEC 60079-6 clause 4.2.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	45	No sign of deterioration of protective liquid by dust or humidity.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	46	No evidence of loosening of external fasteners.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	47	No evidence of loss of protective liquid.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	48	No exposure of encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure in adhesion or softening.	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A			
	49	Protective gas inlet temperature is below maximum specified.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	50	Ducts, pipes and enclosures are in good condition.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	51	Protective gas is substantially free from contaminants.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	52	Protective gas pressure and/or flow is adequate.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	53	Pressure and/or flow indicators, alarms and interlocks function correctly.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	54	Conditions of spark and practical barriers of ducts for exhausting the gas in hazardous area are satisfied.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
C - EN	55	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors.												

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
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V	56	No undue accumulation of dust and dirt or humidity.												
	57	Electrical installation is clean and dry.									N/A			

COMMENTS:




VALIDATION ROLES	SUB-CONTRACTOR	CONTRACTOR	TPI	COMPANY
NAME				
SIGNATURE				
POSITION				
DATE				

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)	 
	Construction	
	Hazardous Area Ex Equipment Inspection Checklist	
A-ITR-Ex-021		




TASK NO.:	T-00193-1665	PHASE:	Construction												
SYSTEM NO.:	ISND-627-30	SYSTEM DESCRIPTION:	POWER GENERATION, DISTRIBUTION SYSTEM												
SUBSYSTEM NO.:	ISND-627-30-10	SUBSYSTEM DESCRIPTION:	Ex Equipment Certification												
FACILITY:	ISND-WHP-S007	AREA:	S01 - MAIN DECK												
TAG NO.:	627-30-DB-02-8R-SKT5-JB-Ex	TAG DESCRIPTION:	Junction Box												
APPLICABLE PROCEDURE:	YPS1-2-25-0001	ACCEPTANCE CRITERIA:	YPS1-2-05-0001												
AREA DATA		EQUIPMENT DETAILS													
Location:		Ex Certificate:										Cert. Body:			
Layout Drawing:	S007-2-67-0005-001	Model:										Gas Group:			
Zone:		Serial Number:										Temp Class:			
Gas Group:		Ex Concept:										IP Rating:			
Temp Class:		Manufacturer:										Product Date:			
	No.	Description	Ex de	Ex d	Ex e	Ex n	Ex i	Ex q	Ex o	Ex m	Ex p	OK	NA	PL	
A - EQUIPMENT	1	Equipment is appropriate to the EPL/Zone requirements of the location.													
	2	Equipment group correct.					N/A								
	3	Equipment temperature class correct.													
	4	Circuit and/or equipment category and group correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	5	Equipment identification is available and correct.													
	6	Equipment installed is that specified in the documentation – fixed equipment only.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	7	Enclosure, glass to-metal sealing gaskets and/or compounds are satisfactory.						N/A		N/A					
	8	There are no unauthorized modifications.													
	9	Lamp rating, type and position are correct.					N/A	N/A	N/A	N/A					
	10	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in accordance with the certification requirements and securely earthed where required.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	11	Bolts, cable glands and MCTs (direct and indirect) and blanking elements are of the correct type and are complete and properly torqued.					N/A				N/A				
	12	Flange faces are clean and undamaged and gaskets, if any, are satisfactory.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	13	Flange gap dimensions are within maximal values permitted.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	14	Electrical connections are tight and properly torqued									N/A				

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
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B - I NS T A L L A T I O N	15	Condition of enclosure gaskets is satisfactory.		N/A			N/A				N/A			
	16	Enclosed-break and hermetically sealed devices are undamaged.	N/A	N/A	N/A		N/A				N/A			
	17	Restricted breathing enclosure is satisfactory.	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A			
	18	Motor fans have sufficient clearance to enclosure and/ or covers.					N/A	N/A	N/A	N/A	N/A			
	19	Breathing and draining devices are satisfactory.					N/A			N/A	N/A			
	20	Printed circuit boards are clean and undamaged.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	21	Type of cable is appropriate and installed in accordance with documentation.												
	22	Cable screens are earthed in accordance with the documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	23	There is no obvious damage to cables.												
	24	Sealing of trunking, ducts, pipes and/ or conduits is satisfactory.									N/A			
	25	Stopping boxes and cable boxes are correctly filled.			N/A	N/A	N/A				N/A			
	26	Integrity of conduit system and interface with mixed system is maintained.					N/A				N/A			
	27	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section).					N/A							
	28	Fault loop impedance (TN systems) or earthing resistance is satisfactory.					N/A							
	29	Insulation resistance is satisfactory.					N/A				N/A			
	30	Automatic electrical protective devices operate within permitted limits.					N/A							
	31	Automatic electrical protective devices are set correctly (auto re-set not possible).					N/A							
	32	Points to point connections are all correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	33	Earth continuity is satisfactory (e.g. Connections are tight, conductors are of sufficient cross-section) for non-galvanically isolated circuits.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	34	Earth connections maintain the integrity of the type of protection.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	35	Intrinsically safe circuit earthing and insulation resistance is satisfactory.	N/A	N/A	N/A	N/A					N/A			

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
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	36	Separation is maintained between intrinsically safe and non-intrinsically safe circuits in common distribution boxes or relay cubicles.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	37	As applicable, short circuit protection of the power supply is in accordance with documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	38	Special conditions of use (if applicable) are complied with.												
	39	Cables/Cores not in use are correctly terminated.									N/A			
	40	Obstructions adjacent to flameproof flanged joints are in accordance with IEC 60079-14.			N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	41	Variable voltage / frequency installation in accordance with documentation.					N/A	N/A	N/A	N/A	N/A			
	42	No evidence of leakage of filling material.	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A			
	43	Protective liquid is between minimum and maximum permissible levels.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	44	Protective liquid is compliant with IEC 60079-6 clause 4.2.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	45	No sign of deterioration of protective liquid by dust or humidity.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	46	No evidence of loosening of external fasteners.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	47	No evidence of loss of protective liquid.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	48	No exposure of encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure in adhesion or softening.	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A			
	49	Protective gas inlet temperature is below maximum specified.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	50	Ducts, pipes and enclosures are in good condition.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	51	Protective gas is substantially free from contaminants.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	52	Protective gas pressure and/or flow is adequate.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	53	Pressure and/or flow indicators, alarms and interlocks function correctly.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	54	Conditions of spark and practical barriers of ducts for exhausting the gas in hazardous area are satisfied.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
C - EN	55	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors.												

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)		 
	Construction		
	Hazardous Area Ex Equipment Inspection Checklist		
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V	56	No undue accumulation of dust and dirt or humidity.												
	57	Electrical installation is clean and dry.										N/A		
COMMENTS:														
VALIDATION ROLES		SUB-CONTRACTOR	CONTRACTOR		TPI				COMPANY					
NAME														
SIGNATURE														
POSITION														
DATE														

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)	 
	Construction	
	Hazardous Area Ex Equipment Inspection Checklist	
A-ITR-Ex-021		




TASK NO.:	T-00193-1734	PHASE:	Construction												
SYSTEM NO.:	ISND-627-30	SYSTEM DESCRIPTION:	POWER GENERATION, DISTRIBUTION SYSTEM												
SUBSYSTEM NO.:	ISND-627-30-10	SUBSYSTEM DESCRIPTION:	Ex Equipment Certification												
FACILITY:	ISND-WHP-S007	AREA:	S01 - MAIN DECK												
TAG NO.:	627-30-DB-02-8R-SKT6-Ex	TAG DESCRIPTION:	Socket Outlet												
APPLICABLE PROCEDURE:	YPS1-2-25-0001	ACCEPTANCE CRITERIA:	YPS1-2-05-0001												
AREA DATA		EQUIPMENT DETAILS													
Location:		Ex Certificate:										Cert. Body:			
Layout Drawing:	S007-2-67-0006-001	Model:										Gas Group:			
Zone:		Serial Number:										Temp Class:			
Gas Group:		Ex Concept:										IP Rating:			
Temp Class:		Manufacturer:										Product Date:			
	No.	Description	Ex de	Ex d	Ex e	Ex n	Ex i	Ex q	Ex o	Ex m	Ex p	OK	NA	PL	
A - EQUIPMENT	1	Equipment is appropriate to the EPL/Zone requirements of the location.													
	2	Equipment group correct.					N/A								
	3	Equipment temperature class correct.													
	4	Circuit and/or equipment category and group correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	5	Equipment identification is available and correct.													
	6	Equipment installed is that specified in the documentation – fixed equipment only.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	7	Enclosure, glass to-metal sealing gaskets and/or compounds are satisfactory.						N/A		N/A					
	8	There are no unauthorized modifications.													
	9	Lamp rating, type and position are correct.					N/A	N/A	N/A	N/A					
	10	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in accordance with the certification requirements and securely earthed where required.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	11	Bolts, cable glands and MCTs (direct and indirect) and blanking elements are of the correct type and are complete and properly torqued.					N/A				N/A				
	12	Flange faces are clean and undamaged and gaskets, if any, are satisfactory.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	13	Flange gap dimensions are within maximal values permitted.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	14	Electrical connections are tight and properly torqued									N/A				

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
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B - I NS TA LL AT IO N	15	Condition of enclosure gaskets is satisfactory.		N/A			N/A				N/A			
	16	Enclosed-break and hermetically sealed devices are undamaged.	N/A	N/A	N/A		N/A				N/A			
	17	Restricted breathing enclosure is satisfactory.	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A			
	18	Motor fans have sufficient clearance to enclosure and/ or covers.					N/A	N/A	N/A	N/A	N/A			
	19	Breathing and draining devices are satisfactory.					N/A			N/A	N/A			
	20	Printed circuit boards are clean and undamaged.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	21	Type of cable is appropriate and installed in accordance with documentation.												
	22	Cable screens are earthed in accordance with the documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	23	There is no obvious damage to cables.												
	24	Sealing of trunking, ducts, pipes and/ or conduits is satisfactory.									N/A			
	25	Stopping boxes and cable boxes are correctly filled.			N/A	N/A	N/A				N/A			
	26	Integrity of conduit system and interface with mixed system is maintained.					N/A				N/A			
	27	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section).					N/A							
	28	Fault loop impedance (TN systems) or earthing resistance is satisfactory.					N/A							
	29	Insulation resistance is satisfactory.					N/A				N/A			
	30	Automatic electrical protective devices operate within permitted limits.					N/A							
	31	Automatic electrical protective devices are set correctly (auto re-set not possible).					N/A							
	32	Points to point connections are all correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	33	Earth continuity is satisfactory (e.g. Connections are tight, conductors are of sufficient cross-section) for non-galvanically isolated circuits.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	34	Earth connections maintain the integrity of the type of protection.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	35	Intrinsically safe circuit earthing and insulation resistance is satisfactory.	N/A	N/A	N/A	N/A					N/A			

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
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	36	Separation is maintained between intrinsically safe and non-intrinsically safe circuits in common distribution boxes or relay cubicles.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	37	As applicable, short circuit protection of the power supply is in accordance with documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	38	Special conditions of use (if applicable) are complied with.												
	39	Cables/Cores not in use are correctly terminated.									N/A			
	40	Obstructions adjacent to flameproof flanged joints are in accordance with IEC 60079-14.			N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	41	Variable voltage / frequency installation in accordance with documentation.					N/A	N/A	N/A	N/A	N/A			
	42	No evidence of leakage of filling material.	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A			
	43	Protective liquid is between minimum and maximum permissible levels.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	44	Protective liquid is compliant with IEC 60079-6 clause 4.2.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	45	No sign of deterioration of protective liquid by dust or humidity.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	46	No evidence of loosening of external fasteners.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	47	No evidence of loss of protective liquid.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	48	No exposure of encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure in adhesion or softening.	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A			
	49	Protective gas inlet temperature is below maximum specified.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	50	Ducts, pipes and enclosures are in good condition.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	51	Protective gas is substantially free from contaminants.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	52	Protective gas pressure and/or flow is adequate.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	53	Pressure and/or flow indicators, alarms and interlocks function correctly.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	54	Conditions of spark and practical barriers of ducts for exhausting the gas in hazardous area are satisfied.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
C - EN	55	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors.												

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)		 
	Construction		
	Hazardous Area Ex Equipment Inspection Checklist		
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V	56	No undue accumulation of dust and dirt or humidity.												
	57	Electrical installation is clean and dry.										N/A		
COMMENTS:														
VALIDATION ROLES		SUB-CONTRACTOR	CONTRACTOR		TPI			COMPANY						
NAME														
SIGNATURE														
POSITION														
DATE														

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)	 
	Construction	
	Hazardous Area Ex Equipment Inspection Checklist	
A-ITR-Ex-021		




TASK NO.:	T-00193-1472	PHASE:	Construction												
SYSTEM NO.:	ISND-627-30	SYSTEM DESCRIPTION:	POWER GENERATION, DISTRIBUTION SYSTEM												
SUBSYSTEM NO.:	ISND-627-30-10	SUBSYSTEM DESCRIPTION:	Ex Equipment Certification												
FACILITY:	ISND-WHP-S007	AREA:	S01 - MAIN DECK												
TAG NO.:	627-30-SKT-01-Ex	TAG DESCRIPTION:	Exed 125A												
APPLICABLE PROCEDURE:	YPS1-2-25-0001	ACCEPTANCE CRITERIA:	YPS1-2-05-0001												
AREA DATA		EQUIPMENT DETAILS													
Location:		Ex Certificate:										Cert. Body:			
Layout Drawing:	S007-2-67-0005-001	Model:										Gas Group:			
Zone:		Serial Number:										Temp Class:			
Gas Group:		Ex Concept:										IP Rating:			
Temp Class:		Manufacturer:										Product Date:			
	No.	Description	Ex de	Ex d	Ex e	Ex n	Ex i	Ex q	Ex o	Ex m	Ex p	OK	NA	PL	
A - EQUIPMENT	1	Equipment is appropriate to the EPL/Zone requirements of the location.													
	2	Equipment group correct.					N/A								
	3	Equipment temperature class correct.													
	4	Circuit and/or equipment category and group correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	5	Equipment identification is available and correct.													
	6	Equipment installed is that specified in the documentation – fixed equipment only.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	7	Enclosure, glass to-metal sealing gaskets and/or compounds are satisfactory.						N/A		N/A					
	8	There are no unauthorized modifications.													
	9	Lamp rating, type and position are correct.					N/A	N/A	N/A	N/A					
	10	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in accordance with the certification requirements and securely earthed where required.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
	11	Bolts, cable glands and MCTs (direct and indirect) and blanking elements are of the correct type and are complete and properly torqued.					N/A				N/A				
	12	Flange faces are clean and undamaged and gaskets, if any, are satisfactory.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	13	Flange gap dimensions are within maximal values permitted.			N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	14	Electrical connections are tight and properly torqued									N/A				

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
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B - I NS T A L L A T I O N	15	Condition of enclosure gaskets is satisfactory.		N/A			N/A				N/A			
	16	Enclosed-break and hermetically sealed devices are undamaged.	N/A	N/A	N/A		N/A				N/A			
	17	Restricted breathing enclosure is satisfactory.	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A			
	18	Motor fans have sufficient clearance to enclosure and/ or covers.					N/A	N/A	N/A	N/A	N/A			
	19	Breathing and draining devices are satisfactory.					N/A			N/A	N/A			
	20	Printed circuit boards are clean and undamaged.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	21	Type of cable is appropriate and installed in accordance with documentation.												
	22	Cable screens are earthed in accordance with the documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	23	There is no obvious damage to cables.												
	24	Sealing of trunking, ducts, pipes and/ or conduits is satisfactory.									N/A			
	25	Stopping boxes and cable boxes are correctly filled.			N/A	N/A	N/A				N/A			
	26	Integrity of conduit system and interface with mixed system is maintained.					N/A				N/A			
	27	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section).					N/A							
	28	Fault loop impedance (TN systems) or earthing resistance is satisfactory.					N/A							
	29	Insulation resistance is satisfactory.					N/A				N/A			
	30	Automatic electrical protective devices operate within permitted limits.					N/A							
	31	Automatic electrical protective devices are set correctly (auto re-set not possible).					N/A							
	32	Points to point connections are all correct.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	33	Earth continuity is satisfactory (e.g. Connections are tight, conductors are of sufficient cross-section) for non-galvanically isolated circuits.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	34	Earth connections maintain the integrity of the type of protection.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	35	Intrinsically safe circuit earthing and insulation resistance is satisfactory.	N/A	N/A	N/A	N/A					N/A			

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)										 
	Construction										
	Hazardous Area Ex Equipment Inspection Checklist										
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	36	Separation is maintained between intrinsically safe and non-intrinsically safe circuits in common distribution boxes or relay cubicles.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	37	As applicable, short circuit protection of the power supply is in accordance with documentation.	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
	38	Special conditions of use (if applicable) are complied with.												
	39	Cables/Cores not in use are correctly terminated.									N/A			
	40	Obstructions adjacent to flameproof flanged joints are in accordance with IEC 60079-14.			N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	41	Variable voltage / frequency installation in accordance with documentation.					N/A	N/A	N/A	N/A	N/A			
	42	No evidence of leakage of filling material.	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A			
	43	Protective liquid is between minimum and maximum permissible levels.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	44	Protective liquid is compliant with IEC 60079-6 clause 4.2.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	45	No sign of deterioration of protective liquid by dust or humidity.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	46	No evidence of loosening of external fasteners.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	47	No evidence of loss of protective liquid.	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A			
	48	No exposure of encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure in adhesion or softening.	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A			
	49	Protective gas inlet temperature is below maximum specified.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	50	Ducts, pipes and enclosures are in good condition.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	51	Protective gas is substantially free from contaminants.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	52	Protective gas pressure and/or flow is adequate.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	53	Pressure and/or flow indicators, alarms and interlocks function correctly.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	54	Conditions of spark and practical barriers of ducts for exhausting the gas in hazardous area are satisfied.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
C - EN	55	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors.												

	EPIC FOR ISND WHP-IS-T07, IS-S07 & IS-V09 WELLHEAD PLATFORMS, PIPELINES, UMBILICALS AND BROWNFIELD MODIFICATION WORKS AT S1 COMPLEX (PHASE5-2)		 
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V	56	No undue accumulation of dust and dirt or humidity.																	
	57	Electrical installation is clean and dry.												N/A					

COMMENTS:

VALIDATION ROLES	SUB-CONTRACTOR	CONTRACTOR	TPI	COMPANY
NAME				
SIGNATURE				
POSITION				
DATE				