

Report of an accident, dangerous occurrence or environmental incident

Document No: N-03000-FM0831 A159980

Date: 26/11/2021

For instructions and general guidance in the use of this form, please see the last page.

Part 1 is required within 3 days of a notified incident. Part 2 is required within 30 days of notified incident.

What was the date and time of the initial verbal incident notification to NOPSEMA?						
Date	17 th May 2023	Time	12:10 hrs WST			

NOTE: It is a requirement to request permission to interfere with the site of an accident or dangerous occurrence. Refer OPGGS(S)R, Reg. 2.49.

What is the date and time of this written incident report?					
	Date	14 th July 2023	Time	08:15 hrs WST	

What type of incident is being reported?				tick appropriate t type	
Accident or dangerous occurre	nce		х	Complete parts 1A, 1B & part	2
Environmental Incident				Complete parts 1A, 1C	
BOTH (Accident or dangerous occ	currence AND environmental in	cident)		Complete ALL parts (1A, 1B, 10	C, 2)
Please tick all applicable (one or more	categories)	To use	electroni	cally: MS Word 2007-10 – click in ch	neck box
	Accidents	Death or Lost time			
Categories Please select one or more	Dangerous occurrences	Hydrocarbon release >1 kg or <u>></u> 80 L (gas or liquid) Fire or explosion Collision marine vessel and facility Could have caused death, serious injury or LTI Damage to safety-critical equipment Unplanned event - implement ERP Pipeline incident Well kick >50 barrels Other:			
	Environmental incidents	Hydrocarbon release Chemical release Drilling fluid/mud release Fauna Incident Other			



Part 1A – Information required within 3 days of an accident, dangerous occurrence or environmental incident

General information – all incidents					
	Where did the incident	Facility / field / title name	CPF Ichthys Explorer, Ichth	ys Field	
1.	occur?	Site name and location Latitude/longitude	CPF Ichthys Explorer Lat 13 ^o 56.339 S, long 123 ^c	9 17.9 E	
	Who is the registered	Name	INPEX Operations Australia operator and agent for the		
2.	operator/titleholder or other person that controls	Business address	100 St Georges Terrace, Pe	erth WA 6000	
	the works site or activity?	Business phone no.	08 6213 6000		
3.	When did the incident	Time and time zone	10:07 hrs WST		
	occur?	Date	17 th May 2023		
	Did anyone witness the incident?	Yes or no If yes, provide details below	Yes		
	Witness details	Witness no 1	Witness no 2	Witness no 3	
	Full name				
4.	Phone no. (Business hours)				
	Phone no. (Home) (Mobile)	N/A			
	Email (Business) (Private)	@inpex.com.au			
	Postal address	100 St Georges Terrace, Perth WA 6000			
	NB: If mo	pre witnesses, copy and insert this s	ection (4) here , and add extra wi	tness numbers appropriately	
		Name			
5.	Details of person submitting	Position			
	this information	Email	@inpex.com.	au	
		Telephone no.			
6.	Brief description of incident	Whilst unbolting the Sea Water Coarse Filter A (SWCF) gearbox there was a release of pressurised sea water. The sea water forced the shaft, gearbox & motor off the top of the SWCF. The gearbox landed on the adjacent deck shearing off the motor which fell approx. 3m to the landing below. The gearbox & motor combined weight is approximately 150kg.			
7.	Work or activity being undertaken at time of incident	The scope of work underway was to remove the Sea Water Coarse Filter A backwash gearbox.			
8.	What are the internal investigation arrangements?	Internal INPEX Incident Inve INPEX Event Reporting & In	-	in accordance with the	
	investigation arrangements? INPEX Event Reporting & Investigation Procedure.				



	Part 1A – Information required within 3 days of an accident, dangerous occurrence or environmental incident								
	General information – all incidents								
9.		Yes or no If Yes, provide details below	Yes						
		Type of fluid (liquid or gas) If hydrocarbon release please complete item no.15 as well	Please specify Non-hydroca						
		Estimated quantity Liquid (L), Gas (kg)	ТВС						
	Was there any loss of containment of any fluid (liquid or gas)?	Estimation details	Calculation Please specify		Measurement				
		Composition Percentage and description	Sea Water						
		Known toxicity to people and/or environment	Toxicity to people Toxicity to environment		No No				
		How was the leak/spill detected?	F&G detection CCTV		Visual Other				
			No Yes		Immediate Delayed				
		Did ignition occur?	If yes, what was the likely ignition source		Hotwork ark electrical source ark metallic contact Hot surface Other				
		Yes or no	Yes						
10.	Has the release been stopped and/or contained?	Duration of the release hh:mm:ss Estimated rate of release Litres or kg per hour	00:14:00						
		What or where is the location of the release?	Sea Water Coarse F	ilter A					
11.	Location of release	What equipment was involved in the release?	Sea Water Coarse F motor.	ilter A	, gearbox and drive				
		Is this functional location listed as safety-critical equipment?	No						
12.	Weather conditions	Ambient temperature c°	N/A						



Part 1A – Information required within 3 days of an accident, dangerous occurrence or environmental incident General information - all incidents Please complete as appropriate Relative humidity % Wind speed m/s NB: for enclosed areas use Air change per hour Wind direction e.g. from SW Significant wave height m Swell m Current speed m/s Current direction e.g. from SW Process Utilities System of hydrocarbon Drilling Well related release Subsea / Pipeline Marine Estimated inventory in N/A the isolatable system Hydrocarbon release details Litres or kg Pressure MPag System pressure and size 13. If hydrocarbon fluid (liquid or gas) of piping or vessel was released, please complete this Size Piping (d) diameter (d in mm) section as well and Piping (I) length (I in m) or Vessel (V) or volume (V in L) N/A Estimated equivalent hole diameter d in mm

Part 1	Part 1B - Complete for accidents or dangerous occurrences									
Accidents and dangerous occurrences information										
	Was NOPSEMA notified throu notification phone line? Phon	Yes		No						
	Action taken to make the work-site safe	Was permission given by a	Was permission given by a NOPSEMA inspector to interfere with the site?							
		OPGGS(S)R 2.49.	Yes		No					
15.		Action taken	 Area barricaded SWCF A isolated SWLP C is taken offline to reduce D across SWCF's 							
		Details of any disturbance of the work site	Area / sea water system made sate							



Part 1	Part 1B - Complete for accidents or dangerous occurrences								
Acciden	Accidents and dangerous occurrences information								
	Was an emergency response initiated?			Yes				No	⊠
16.		Type of response	Aut	Manual comatic alarm				luster lation	
		How effective was the							
		emergency response?	N/A						
	Was anyone killed o	or injured? Provide details below		Yes				No	
	Injured persons (IP)		Ca	asualty No 1					
	If different from item 2. Employer name		Emp	loyer address					
	Employer phone no.		Emp	loyer email					
	IP full name								
	IP date of birth			9	Sex	Μ		F	
	IP residential address								
	IP phone no. (Work)		IP phone no. (Home) (Mobile)						
	IP occupation/job title		Contractor or core crew						
	Details of injury								
17.	Based on TOOCS (refer last page) Nature of injury	 a. Intracranial injury b. Fractures c. Wounds, lacerations, amputations, internal 	d. Burn e. Nerve or spinal cord injury f. Joint, ligament, muscle or tendon injury g. Other						
	Part of body	organ damage G1. Head or face G2. Neck G3. Trunk G4. Shoulder or arm	G5. Hip or leg G6. Multiple locations G7. Internal systems G8. Other						
	Mechanism of injury	 G0. Falls, stepping, kneeling, sitting on object G1. Hitting object G2. Being hit or trapped 	G3. Exposure to sound or pressure G4. Muscular stress G5. Heat, cold or radiation G6/7 Chemical, biological substance G8. Other						
	Agency of injury	 Machinery or fixed plant Mobile plant or transport Powered equipment Non-power equipment 	5/6. Chemicals, materials, substances 7. Environmental agencies 8. Human or animal agencies 9. Other						
	Details of job being undertaken								
	Day and hour of shift								
	1		L	1					I



Part 1B - Complete for accidents or dangerous occurrences Accidents and dangerous occurrences information NB: If more casualties, please copy/paste this section (19) for each additional casualty and insert here Was there any serious damage? Provide details below Yes \boxtimes No Details Item 1 Item 2 Item 3 SWCF A 18. Equipment damaged Drive motor sheared from Extent of damage gearbox Will the equipment be shut Yes down? Yes or No 19. TBC If Yes, for how long? NB: If more equipment seriously damaged, please copy/paste this section as required Yes or no No Will the facility be shut If yes provide details below down? 20. Date dd/mm/yyyy Facility shutdown Time 24 hour clock Duration days / hours / minutes Completion date Action **Responsible party** Actual or intended SWCF A isolated SWLP C is taken offline to OTL 17th May 2023 reduce DP across SWCF's Immediate action taken/intended, if any, to 21. prevent recurrence of incident. What were the immediate 22. TBC - investigation ongoing causes of the incident?

Attachr	Attachments								
Are you attaching any documents?			Yes or no If yes provide details below	Νο					
No.	ID	Revision	Date	Title/description					
Insert or delete rows as required									



Part	Part 1C – Complete for environmental incidents						
Envir	Environmental Impacts						
23.	What is the current environment plan for this incident?	Environment plan					
		Yes or no If yes provide details below					
		Incident details e.g. estimated area of impact, nature/significance of impact					
	Has the incident resulted	ENVIRONMENTAL RECEPTO	RS				
	in an impact to the	Open	ocean [Macroalgae	
	environment?	She	oreline [Coral Reef	
		Population			Be	enthic invertebrates	
						Seagrass	
24.		Other sen e.g. conservation area, nestin	,			Mangrove	
			g beach				
		Further details					
	Details	Environment 1	Envi	ironr	ment 2	Environment 3	}
	Location of receiving						
	environments Lat/Long Date & time of impact						
	Action taken to minimise						
	exposure						
	Specify each matter						
	protected under Part 3 of						
	the EPBC Act impacted						
		NB: If more environments we	re damaged, µ	please	copy/paste this s	section (Item E3) and add ext	ra data
		Yes or no If yes, provide details					
		Details					
		e.g. zone of potential impact					
	Are any environments at	AT RISK ENVIRONMENTS					
	risk?		ocean [Macroalgae	
	Including as a result of spill response measures	-				Coral Reef	
		Population			Be	enthic Invertebrates	
25.		Stakeh	olders [Seagrass	
		Other sen	,			Mangrove	
		e.g. conservation area, nestin				_	
	Details	Environment 1	Env	/ironr	ment 2	Environment 3	
	Estimated location of 'at- risk' environments						
	Estimated impact date & time						



Part 1C - Complete for environmental incidents **Environmental Impacts** Action required to minimise exposure Specify each matter protected under Part 3 of the EPBC Act at risk NB: If more environments at risk of damage, please copy/paste this section (Item E2) and add extra data Yes or no If yes, what action has been Was an oil pollution 26. emergency plan activated? implemented /planned? If yes, how effective is/was the spill response? Was an environmental Yes or no If yes, what actions have monitoring program 27. initiated? been implemented and/or planned? Did the incident result in Yes or no the death or injury of any (If yes provide details of fauna? species in the table below) Injured fauna Species 1 Species 2 Species 3 Species name 28. (common or scientific name) Number of individuals Killed: Killed: Killed: killed or injured Injured: Injured: Injured: NB: If more species were injured or killed, please copy/paste this section (Item E4) and add extra data **Completion date** Action **Responsible party** Actual or intended Actions taken to avoid or mitigate any adverse 29. environmental impacts of the incident. NB: If more actions, please add extra rows as required **Completion date** Action **Responsible party** Actual or intended Corrective actions taken, or proposed, to stop, 30. control or remedy the incident. NB: If more actions, please add extra rows as required **Completion date Responsible party** 31. Action Actual or intended



Part 1C – Complete for environmental incidents

Environmental Impacts							
Actions taken, or proposed, to prevent a							
similar incident occurring							
in the future.							
	•	NB: If more actions	s, please add extra rows as required				

Attachments								
Are you attaching any documents?			Yes or no If yes provide details below					
No.	No. ID Revision		Date	Title/Description				
	Insert or delete rows as required							



Part 2 – Information required within 30 days of accident or dangerous occurrence

NOPSEMA acknowledges that in many circumstances an operator may not have completed an investigation within 3 days of an accident or first detection of a dangerous occurrence and agrees that these items must be provided within 30 days unless otherwise agreed, in writing with NOPSEMA. In circumstances where an investigation has been completed within 3 days, and these items are available (supplemented, as required by any attachments) this part should also be completed at that time.

	· ·					
	Has the investigation been completed?	Yes or no	Yes			
		Root cause 1	Described in text below.			
		Root cause 2				
	Root cause analysis	Root cause 3				
	What were the root causes?	Other root causes				
		A TapRooT investigation was	conducted in accordance with the INPEX Incident			
		Reporting & Investigation Pro	ocedure. The investigation team comprised of an			
32.	Full report Describe investigation in detail, including who conducted the investigation and in accordance with what standard/procedure with reference to attachments listed in the 'attachments table' (following) as applicable	In preparation for four planned SWCF internal filter element and backwash arm replacements, it was identified that the associated gearbox and motor should be overhauled to ensure the system was fully operational once returned to service. A Risk Assessment (RA022006) was submitted and approved at the Permit Application Meeting (PAM) for the SWCF 'A' package on the 03.05.2023. After the initial toolbox talk, permit (PE013255) was signed on at the work location on the 17.05.2023. The Work Party (WP) noticed that the SWCF 'B' package had already been worked on, with the bolts physically removed.				
		One of the WP returned to the workshop to obtain additional tooling whilst the Involved Person (IP) remained at the site to remove the four gearbox retaining bolts. The IP removed three of the bolts fully and was in the process of removing the fourth when the gearbox and motor assembly along with the drive shaft ejected from the SWCF 'A' package, which remained online and had 1000kPa of pressure inside, narrowly missing the IP.				
		The IP removed themself from the vicinity, and returned to the workshop where the situation was escalated to the Area Authority. The package was then isolated, de-pressurised and preserved for the investigation team.				
		Initial findings highlighted that the during the work scope isolation planning phase, the work was identified as a non-intrusive activity and continued to be assessed as such through to approval and permit issuance.				
		<u>Findings</u>				
		The investigation identified a incident, summarised below.	number of Causal Factors & Root Causes for this			



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any a	any attachments) this part should also be completed at that time.						
		Root Cause - The SWCF Package was not process isolated to segregate the source of energy from the workers.					
		ulting in galvanic					
		 Causal Factor 2 - The Biofouling Package stopped working, resulting in manual shock dosing of hypochlorite that wasn't calibrated, which accelerated the corrosion of the internals of the SWCF. Causal Factor 3 - The MOC raised to permit seawater vessel operations without coarse filtration internals didn't identify the need to update the general arrangement drawings once the backwash arm and straining element internals were removed. The MOC also didn't incorporate Mech Static TA review. The MOC did not state which vessels had had the internals removed. 					
		nternals once they					
		 Causal Factor 5 - Modifying the vessel whilst still in service by removing the gearbox without an MOC approval to change the vessel configuration. Causal Factor 6 - Lack of visibility on equipment status relating to temporary MOCs. No visual linkage between temporary MOCs to execution SAP work orders or FLOC's. 					
	Actions to prevent recurrence of same or similar incident	Action	Responsible party	Completion date Actual or intended			
		Refer to attached table.					
33.							
	NB: Add or delete rows as appropriate						

Attachments (Insert/delete rows as required)						
Are you attaching any documents?			Yes or no	Yes		
			If yes provide details below			
No.	ID	Revision	Date	Title/description		
				CPF SWCF "A" Action Table		



• Instructions and general guidance for use:

- 1. The use of this form is voluntary and is provided to assist operators and titleholders to comply with their obligations to give notice and provide reports of incidents to NOPSEMA under the applicable legislation.
- 2. Accidents, dangerous occurrences or environmental incidents can all be reported using this same form.
- 3. The applicable legislation for incident reporting is:
 - a. Offshore Petroleum and Greenhouse Gas Storage (Safety) Regulations 2009 [OPGGS(S)R]; and
 - b. Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 [OPGGS(E)R], for facilities located in Commonwealth waters; or
 - c. for facilities located in designated coastal waters, the relevant State or Territory Act and associated Regulations where there is a current conferral of powers to NOPSEMA.
- 4. In the context of this form an incident is a reportable incident as defined under:
 - a. OPGGSA, Schedule 3, Clause 82.
 - b. OPGGS(E)R, regulation 4.
- 5. This form should be used in conjunction with NOPSEMA Guidance Notes available on the NOPSEMA website:
 - a. N-03000-GN0099 Notification and Reporting of Accidents and Dangerous Occurrences
 - b. N-03000-GN0926 Notification and Reporting of Environmental Incidents
- 6. Part 1 requires completion for all incidents; then ALSO complete part 2 if the incident is an accident or dangerous occurrence.
- 7. NOPSEMA considers that a full report will contain copies of documentary material referenced and/or relied on in the course of completing this form, which may include (but not be limited to) as appropriate: witness statements, management system documents, drawings, diagrams and photographs, third party reports (audit, inspection, material analysis etc.), internal records and correspondence.
- This form is intended to be completed electronically using Microsoft Word by completing the unshaded cells which will expand as required to accept the information required <u>and</u> the check boxes where relevant (NB: check boxes may appear shaded and have reduced functionality in MS Word versions prior to 2010).
- 9. The completed version of this form (and any attachments, where applicable) should be emailed to:

submissions@nopsema.gov.au

or submitted via secure file transfer at: <u>https://securefile.nopsema.gov.au/filedrop/submissions</u> as

soon as practicable, but in any case within three days of the incident.



• References

NOPSEMA website: <u>www.nopsema.gov.au</u>

TOOCS – Type of Occurrence Classification System.

The *Type of Occurrence Classifications System, Version 3.0* (TOOCS3.0) was developed to improve the quality and consistency of data. This system aligns with the International Classification of Diseases –Australian Modification (ICD10-AM).

http://www.safeworkaustralia.gov.au/sites/SWA/AboutSafeWorkAustralia/WhatWeDo/Publications/Documents/ 207/TypeOfOccurrenceClassificationSystem(TOOCS)3rdEditionRevision1.pdf

OPGGS(S)R. Offshore Petroleum and Greenhouse Gas Storage (Safety) Regulations 2009. Select Legislative Instrument 2009 No. 382 as amended and made under the *Offshore Petroleum and Greenhouse Gas Storage Act 2006*. Commonwealth of Australia.

OPGGS(E)R. Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009. Statutory Rules 1999 No. 228 as amended and made under the *Offshore Petroleum and Greenhouse Gas Storage Act 2006.* Commonwealth of Australia.

• Privacy Notice

NOPSEMA collects your personal information for the purpose of investigating accidents, dangerous occurrences and environmental incidents under the Offshore Petroleum and Greenhouse Gas Storage Act 2006.

NOPSEMA will not use or disclose your personal information for any other purpose without your consent, unless it is required or authorised by law, or relates to NOPSEMA's enforcement activities. Your personal information may be disclosed to the following organisations, entities or individuals:

- individuals who make a request under the Freedom of Information Act 1982
- the Australian National Audit Office and other privately-appointed auditors
- other law enforcement bodies (for example, the police or the Coroner)
- NOPSEMA's legal advisors.

NOPSEMA may occasionally be required to disclose information to overseas recipients in order to discharge its functions or exercise its powers, or to perform its necessary business activities.

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