Form: QR-22.1

Fax#

Date:

🖄 Husky Energy	Rev. : 3 , Date : 0)1/07
NONCONFORMANCE REPORT	NCR # NCR080820MJBa	
HONCONFORMANCE REPORT	Refer to Inspection Report # 6077837	
PRIORITY X Level 0 – Serious/Code Resolve Immediately	X Internal (Husky) External (Contracte	or)
PRIORITY X Level 0 – Serious/Code Resolve Immediately Level 1 - Major Resolve within 14 days	NCR Identified By Murray Butcher	<i>",</i>
	NCR to be Actioned By Ron Chapman	
Level 2 – Minor Resolve within 30 days		
Level 3 (Shutdown) Resolve at next shutdown	NCR to be Resolved By Dabir Naqui	
LOCATION & EQUIPMENT / PROCEDURE IDENTIFICATION		
	OG areas LSD	
	facturer Husky ID #	
Prov. Registration # CRN	Serial #	-0%
DESCRIPTION OF NONCONFORMANCE (To be completed by	person identifying the NCR) Please attach photos when applic	able
Installation inspection found a PSV with inlet and outlet is		ee
the attached photo). The PSV location was 5-36-49-20-Violenteen photo (PSV) or that area stated they were not aware of all the process of the		,
isolation valve(s). Further informal audits in other HOG		
CAUSE OF NONCONFORMANCE (To be completed by person if		
X Noncompliance with Husky Integrity Program/Procedure	X Noncompliance with Code, Act or Regulation	
Noncompliance with Husky Eng. Specs Other		ect I ther
PRELIMINARY REVIEW (To be completed by Chief or Facility Ins		
Prior To Issuing , Nonconformity Has Been Discussed With	noticity.	
X Operations Engineering Maintenan	ce Contractor Authorized Inspect	or
NCR Issued By : Ron Chapman	Signature Date	
Chief Inspector - Level 0 & 3 Print Facility Lead Inspector - Level 1 & 2	Signature Date	
RECOMMENDED ACTION (To be completed by person assigned	o action the NCR)	
Scrap Use "As-Is" Repair	Alteretion Deplese Deturn to Sunn	
	Alteration Replace Return to Supp	ier
Describe actions required to resolve the NCR:		
Describe actions required to resolve the NCR:	e training documents	10
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Describe actions required to resolve the NCR: Prepared by (Please Print) APPROVAL OF RECOMMENDED ACTION Required Yes No Chief or Facility Lead Inspector (Please Print) Tech Leader / Project Lead (Please Print) Operations or Contractor (Please Print) Authorized Inspector (Please Print)	Signature Date Signature Date Signature Date Signature Date	10
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e-mail _



Program: Asset Integrity Program, Pressure Equipment, Piping, Tanks Revision: B

Section: IBP-003a Inspection Best Practices Revised: Dec 7, 2004

Name: PRESSURE RELIEF DEVICE ISOLATION VALVE CONTROL Page # 1 of 12

WESTERN CANADA UPSTREAM AND MIDSTREAM PRODUCTION FACILITIES

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Roles and Responsibilities

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Monitoring, Records and Forms

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Individual Equipment, Unit, Plant or Facility Shutdown

Operating Procedure

Isolation Valve Operation on Operating Equipment

Operating Procedure

Isolation Valve Operation on Operating Equipment with Twinned Pressure Relief Devices

Forms

IBP-003a Isolation Valve Current Status Log IBP-003b In-Service Operation Authorization

IBP-003c Inventory Listing

(*** Copies of this procedure can be obtained from the Husky intranet by following this path:
Departments > Operations > Exploration and Production Services > Facilities Engineering and Technical
Services > Asset Integrity > Calgary Operating District > Inspection Best Practices. OR by contacting the
Facilities Lead Inspector)

Saskatchewan Procedure reference file # BV-22 (Sask. Boiler and PV Safety, requires procedure registration for each facility where this procedure will be implemented in Sask. Rather than re-registering the procedure for each facility, a letter requesting addition of a new facility to the Husky Facility List is required, referencing the above file #)



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STATEMENT OF AUTHORITY

This document describes the systems and procedures that are implemented by Husky Energy to ensure that pressure relief device isolation valves are controlled and operated in a manner that assures the safety of personnel, equipment and the environment.

This document has the full support of Husky Energy Western Canada Upstream and Midstream Production Districts' Technical and Operations Management.

The Operating Area Technical Services Manager, assumes overall responsibility to ensure the Pressure Relief Device Isolation Valve Control Procedure is implemented and effective.

Operations Area Managers / Superintendents / Midstream Coordinator and Designated Competent Operating Personnel implement this procedure at all operating facilities where isolation valves are used.

The Lead Inspector has the authority and organizational freedom to initiate corrective action and provide solutions to problems found in the implementation of this procedure.

This procedure has the full support of the Husky Energy Western Canada Upstream Production/Management and personnel. All personnel are required to work within the requirements of this procedure, local jurisdictional regulations, codes, and standards governing their facility. Husky Energy acknowledges that the Jurisdictional Authority has the right to audit, and where applicable, revoke this procedure.

Signa	tures of Review and Acc	ceptance	
Title	Name	Signature	Date
Technical Services Manager:			
Operating Area Manager / Superintendent / Equivalent:			
OPERATIONS DESIGNATE **(This	signature required on Fa	∣ cility Copy for audit pu	ırposes)
facilities, sign and indicates they have implement all of the	ng Personnel, trained and date at this Form on a read and understood the requirements stated.	per facility basis. T contents of this proce	he signature
Name:	Signature:	Date:	
Name:	Signature:	Date:	
Name:	Signature:	Date:	

This page with Engineering and Management Signatures will be posted on the Husky Intranet.

**This page must be updated or replaced when organizational changes require a new signature.



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SCOPE

This procedure describes means for the identification, installation, operation and control of pressure relief device isolation valves at all facilities within the Western Canada Upstream and Midstream Production Facilities.

This procedure is used in-conjunction with the Husky Pressure Equipment Integrity Management Program Section PEIM-20, Part PRD-4, Health & Safety Policy Procedure Procp.16 and ASME Section VIII, Division 1 Appendix M.

ROLES & RESPONSIBILITIES

Roles and responsibilities as described in the Husky Energy's Pressure Equipment Integrity Management Program Section PRD-4 shall apply to this procedure.

Specific personnel responsible for the control of pressure relief device, isolation valves within Western Canada Upstream and Midstream Production Areas are given on the form on the previous page. Acceptance of responsibility is verified by signature.

This list shall be reviewed and updated in conjunction with the renewal of the Pressure Equipment Integrity Management Program, and when significant organizational changes take place. Completed forms supplying management signatures are available on the Husky Intranet. Forms supplying Operations Personnel signatures are available at the sites where the designate has responsibility.

ISOLATION VALVE INSTALLATION

All pressure relief device isolation valves are installed in accordance with the requirements of PRD-4 clause 3.0. Valves shall be locked in position by means of a chain and padlock or a car seal.

Installation of new PRD Isolation Valves shall be managed and approved in accordance with PEIM 13 - Management of Change (MOC) Section of the Corporate Pressure Equipment Integrity Management Program.

All pressure relief device isolation valves are to be tagged with a unique identification number. Isolation valves are identified on the sites Process & Instrumentation Diagrams. Each site maintains an inventory listing referencing an identification number, the applicable operating procedure for operation of the valve and primary purpose of the isolation valve.

Isolation Valves installed for unit / battery isolation from a common flare header, require a detailed, site specific operating procedure. The procedure will, when required by the jurisdictional authority, be provided for review and approval prior to installation of these isolation valves. (*Presently a requirement in Saskatchewan only*) See typical unit/battery installation configurations from API 520 Part II Figures 17 and 18.



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TYPICAL ISOLATION VALVE INSTALLATION CONFIGURATIONS (3)

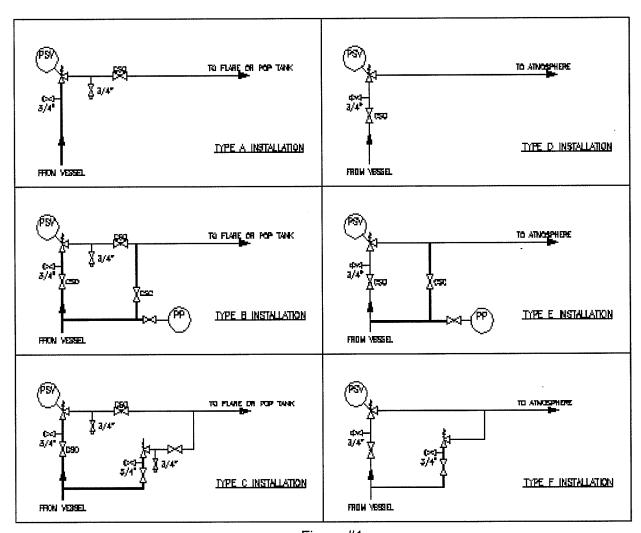


Figure #1



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Figures 17 and 18 are directly from API Recommended Practice 520:

Sizing, Selection and Installation of Pressure Relieving Devices in Refineries

Part 2 – Installation

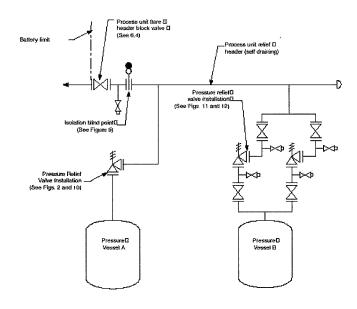


Figure 17 - Typical Flare Header Block Valves

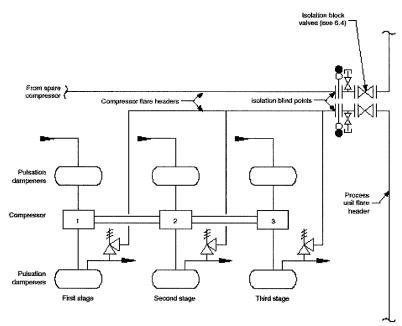


Figure 18—Typical Isolation Block Valves for Spare Compressor



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MONITORING, RECORDS & FORMS

The following records and forms are used in this procedure:

IBP-003a-Fa Lock-Out Status: Pressure Relief Device Isolation Valve.

Records all pressure relief device isolation valves installed at a facility indicating their location, associated pressure relief device, "normal" position and present open/closed status. Also records verification of monthly isolation valve monitoring.

All facility pressure relief device isolation valves are monitored on a **monthly** basis to verify they are locked or car-sealed in the correct position. Monitoring activities are recorded on form IBP-03A-FA

IBP-003a-Fb PRD Isolation Valve - Operation Authorization Report

Records the approval to close a designated pressure relief device isolation valve(s) while the equipment is to remain in operation. Approval must be signed-off by the Operation's Area Manager / Superintendent.

IBP-003a-Fc PSV/PRD Isolation Valve - Inventory

Lists all PRD/PSV Isolation Valves within a given facility / location and may include all field / well site locations operated from the central operating location / main plant location.

OPERATING PROCEDURE INDIVIDUAL EQUIPMENT, UNIT, PLANT OR FACILITY SHUTDOWN

Pressure relief device isolation valves shall be locked or car sealed in their "normal" position at all times during operation.

During an individual equipment, Unit, Plant or total Facility shutdown the pressure relief device isolation valve(s) may be placed and locked / car-sealed in the closed position to ensure positive equipment isolation from associated equipment, piping or flare systems. This will allow proper blinding and purging to occur, ensuring safe equipment outage.

The following procedure shall be followed when closing a pressure relief device isolation valve during an individual equipment, Unit, Plant or total Facility shutdown.

1. Approval to remove locks / car seals and close valves shall be by the Designated Operating Personnel only. The Designated Operating Personnel shall review the Facility Process & Instrumentation Diagrams to verify pressure relief devices proposed for isolation are not protecting associated equipment or piping that are designated to remain in operation.



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2. Designated pressure relief device isolation valves are to be positioned to the closed position only by authorized operations personnel. Isolation valve(s) shall be locked or car-sealed in the closed position.

- 3. New status of isolation valve(s) position shall be recorded on Form IBP-003a-Fa which shall be prominently posted in the Facility's main operating office or control room at all times.
- 4. Operation's "Blind List" for equipment shutdown and start-up shall indicate isolation valve closure upon equipment shutdown and verification of valve return and chain lock or car-seal in the open position prior to equipment return to service.
- 5. Designated pressure relief device isolation valves are to be returned to the open position only by authorized operations personnel. Isolation valve(s) shall be locked or car-sealed in the open position.
- 6. New status of isolation valve(s) position shall be recorded on Form IBP-003a-Fa which shall be prominently posted in the Facility's main operating office or control room at all times.

OPERATING PROCEDURE ISOLATION VALVE REPOSITIONING ON OPERATING EQUIPMENT

Pressure relief device isolation valves shall be locked or car sealed in the open position at all times during operation.

Note: This procedure shall only be applied to pressure relief devices equipped with the following isolation valve configurations;

- upstream isolation valves only when pressure relief device is vented to atmosphere
- upstream and downstream isolation valves when pressure relief device is vented to a closed flare or pop-tank system

The following procedure shall be followed when closing pressure relief device isolation valve(s) on operating equipment.

- 1. Isolation block valve(s) on operating equipment pressure relieving device(s) shall only be operating to effect replacement or repair of an improperly operating pressure relief device(s). Review shall be completed by Operations to verify whether shut down of the operating equipment is not possible without major production or operating process impact
- 2. Approval to remove locks / car seals and operate isolation valve(s) on operating equipment shall be by the Operating Area Manager / Superintendent / Midstream



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Coordinator only. Authorization for operation of isolation valves shall be controlled and recorded on Form IBP-003a-Fb.

- 3. The Designated Operations Personnel shall review the Facility Process & Instrumentation Diagrams to verify pressure relief devices proposed for isolation are not protecting associated equipment or piping. The Designated Operations Personnel shall also verify if the subject operating equipment is protected by an "alternate" pressure relief device.
- 4. The Manager / Superintendent or Designated Operations Personnel shall make arrangements for new replacement pressure relief device purchase and delivery or existing pressure relief device repair and servicing to minimize isolation time period.
- 5. An authorized operator shall close the isolation block valve(s) and shall:
 - a) remain stationed at the equipment and monitor the system for overpressure using a calibrated pressure gauge of a range of 2 times to 4 times the pressure relief device set pressure.

The operator shall be capable of relieving pressure from the equipment by means of a vent to flare or atmosphere and / or be able to shut down the equipment, system or plant or be in constant communication with a main facility operator who can shut down the equipment, system or plant remotely, in the event that the equipment reaches its maximum allowable working pressure.

OR

b) ensure adequate over pressure protection is provided by additional pressure relief device(s) installed on the operating equipment or its associated operating system.

Block valves installed between the operating equipment and "alternative" pressure relief device(s) shall be locked or car-sealed in the open position until the isolated pressure relief device is returned to service.

Locked / car-sealed operation block valves shall be recorded on Form IBP-003a-Fa which shall be prominently posted in the Facility's main operating office or control room.

- 6. New status of isolation valve(s) position shall be recorded on Form IBP-003a-Fa which shall be prominently posted in the Facility's main operating office or control room at all times. Status of subject isolation valve(s) shall also be hi-lighted in the operation's logbook until such time they are returned to the open position.
- 7. The replacement or repaired pressure relief device shall be installed and placed in service as soon as possible.
- 8. Designated pressure relief device isolation valves are to be returned to the open position only by authorized operations personnel. Isolation valve(s) shall be locked or car-sealed in the open position.



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 New status of isolation valve(s) position shall be recorded on Form IBP-003a-Fa which shall be prominently posted in the Facility's main operating office or control room at all times.

10. Senior Operator shall complete Form IBP-003a-Fb and file in the Facility pressure relief device equipment history records and submit one copy to the Facility Lead Inspector.

OPERATING PROCEDURE ISOLATION VALVE REPOSITIONING ON OPERATING EQUIPMENT WITH "TWINNED" PRESSURE RELIEF DEVICES

Pressure relief device isolation valves shall be locked or car sealed in their "normal" position at all times during operation.

Note: This procedure shall only be applied to equipment with two or more pressure relief devices equipped with isolation valve(s)

The following procedure shall be followed when operating "twinned" pressure relief device isolation valve(s) on operating equipment.

- 1. Isolation block valve(s) on operating equipment pressure relieving device(s) shall only be operating to effect replacement or repair of an improperly operating pressure relief device(s) or to perform regular scheduled service.
- 2. Approval to remove locks / car seals and operate isolation valve(s) shall be by the Senior Operator only.
- 3. Only authorized operations personnel are allowed to reposition isolation valves.
- 4. Isolation valve(s) on the "spare" twinned pressure relief device shall be unlocked valve repositioned and locked or car-sealed to the open position.
- 5. Isolation valve(s) on the "in service" twinned pressure relief device shall be unlocked, valve repositioned and locked or car-sealed to the closed position.
- 6. New status of isolation valve(s) position shall be recorded on Form IBP-003a-Fa and prominently posted in the Facility's main operating office or control room at all times.



(Form # IBP-003a-Fa)

LOCK-OUT STATUS: PRESSURE RELIEF DEVICE - ISOLATION VALVE

FACILITY NAME:	FACILITY LSD:	
AREA MANAGER / SUPERINTENDENT:		
OPERATIONS DESIGNATE:		

Isolation Valve #	PRD Tag #	Location In/Outlet	Protected Equipme nt	Normal Position Open/Closed	Present Status Open/Closed	Date "Closed"	Operations Signature	Date Re-opened & Car-sealed	Operations Signature
				·					

Monthly Audit Complete with Signature of Operator

Year _____

Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sept	Oct	Nov	Dec



Corrections and Public Safety Licensing and Inspections Boiler & Pressure Vessel Safety #330, 1855 Victoria Avenue REGINA, SK S4P 3V7

(306) 787-4522 Phone (306) 787-9273 Fax

September 28, 2004

Husky Oil 707 – 8th Avenue PO Box 6525, Station D CALGARY AB T2P 3G7

Attn: Greg Murray, Facilities Lead Inspector

Dear Sir/Madam:

Re: Pressure Relief Device Isolation Valve Control Program Approval:

Husky Procedure IBP-005 Rev A Western Canada Facilities

LSD: Various Locations on Attached List

Be advised that the procedure for Pressure Relief Device Isolation Valve Control Program submitted on <u>August 10, 2004</u> has been reviewed and approved.

1. When facilities are added to the Pressure Relief Device Isolation Valve Control Program, an updated facility list must be forwarded to this office for our records.

Please refer to the following file number for any future reference to this program: File #BV-22.

If you require any further assistance, please contact the undersigned.

Yours truly,

Kathryn A. Black, P. Eng.

Codes and Standards Compliance

cc: District Inspectors:

James Amanie

Neil Pinkney Theo Poelen Gord Aisman





Husky Oil

Gent Apr 18/05

707 8th Avenue SW Box 6525, Station D Calgary, Alberta T2P 3G7 Bus (Main): (403) 298-6111 Fax (CTS): (403) 750-1960

April 17, 2005

Saskatchewan Department of Correction and Public Safety Boilers and P.V. Safety 3rd Floor, 1855 Victoria Avenue Regina SK S4P 3V7

Attention:

Kathryn Black

Codes and Standards Compliance

Dear Madam:

Re: Pressure Relief Device Isolation Valve Control - File #BV-22

Please find enclosed a Husky Energy List of Saskatchewan facilities. The list provides the manager / Superintendent responsible for implementation of the Pressure Relief Device Isolation Valve Control – File #BV-22 for each facility / area.

You have a signature page already on file for Gordon Olson, provided with the last revision of our procedure sent February 8th, 2005.

Signature pages have also been provided as requested in your last letter accepting this procedure pending receipt of these signatures.

Verification of application of this procedure within Husky, is ensured through an ongoing internal audit process.

This should conclude your requirements for this procedure. Updates will be provided by Husky, as required when organizational changes take place.

If you have any concerns or questions regarding this submittal please contact me at our Calgary offices, 403 750 5013.

Greg Murray
Coordinator
Pressure Equipment Integrity
Engineering and Project Management / Technical Services

FunctLocation	Description	Cost Center	User status]_
EC-PE-003-00001	EAGLE CREEK OIL BATTERY 15-13-039-25W3	77863	PROD	1 \
EC-PE-011-00001	MACKLIN OIL BATTERY 05-24-039-28W3	76627	PROD	1)
EC-PE-012-00001	NORTHEND OIL BATTERY 16-20-040-28W3	76741	PROD	1 /
EC-PE-012-00002	BORDER OIL BTY 14-03-040-28W3	76740	PROD	1 <i> </i>
EC-PE-012-00006	NORTHEND TEST BENCH SITE 09-16-040-28W3	76741	PROD]/.
EC-PE-016-00001	CACTUS LAKE COMP STN 15-10-036-28W3	78062	PROD	(Das (Mill
EC-PE-017-00001	DODSLAND OIL BATTERY 13-11-032-20W3	74267	PROD	150
EC-PE-018-00001	WHITESIDE COMPRESSOR STN 01-05-030-25W3	74360	PROD	1 (11:11
EC-PE-019-00001	GREENAN COMPRESSOR STN 11-12-026-16W3	74285	PROD	1
EC-PE-021-00001	UNITY GAS GATHERING SYSTEM LSD?	N/A	PROD	1)
SS-SK-001-00001	ANTELOPE OIL BATTERY 11-09-015-18W3	71226	PROD	7
SS-SK-002-00001	BEVERLEY WEST UNIT OB 10-13-015-17W3	71302	PROD	1 1/2
SS-SK-003-00001	BENCH OIL BATTERY 06-08-011-18W3	71268	PROD	
SS-SK-004-00001	BONE CREEK OIL BATTERY 10-27-010-19W3	73259	PROD	Tools
SS-SK-006-00001	BUTTE VOLUNTARY OIL BATT 05-34-011-19W3	73271	PROD	100000
SS-SK-007-00001	CANTUAR EAST UNIT OB 11-17-016-16W3	71707	PROD	0/50
SS-SK-008-00001	CANTUAR MAIN UNIT OB 15-15-016-17W3	71717	PROD	1
SS-SK-008-00016	CANTUAR GAS PLANT 12-02-015-17W3	71715	PROD	1
SS-SK-009-00001	ALAMEDA OIL BATTERY 11-23-002-34W1	71200	PROD	1
SS-SK-011-00001	CARNDUFF OIL BATTERY 12-19-002-33W1	73312	PROD	1
SS-SK-011-00002	CARNDUFF INJECTION PLANT 05-19-002-34W1	76205	PROD	
SS-SK-012-00001	FLORENCE OIL BATTERY 13-22-002-34W1	71200	PROD	į
SS-SK-013-00001	FROBISHER OIL BATTERY 07-27-002-34W1	73337	PROD	1
SS-SK-014-00001	GLEN EWEN OIL BATTERY 05-28-002-33W1	71929	PROD	
SS-SK-016-00001	MIDALE OIL BATTERY 03-15-002-33W1	73316	PROD	1
SS-SK-017-00001	OLD HIGHWAY OIL BATTERY 04-01-003-34W1	73339	SHUT	1
SS-SK-018-00001	RED ROOSTER OIL BATTERY 14-28-002-34W1	72462	PROD	1
SS-SK-019-00001	SOURIS FLATS OIL BATTERY 03-02-002-33W1	73385	PROD]
SS-SK-021-00001	COOT HILL OIL BATTERY 06-14-014-33W1	71744	PROD	
SS-SK-022-00001	DELTA UNIT OIL BATTERY 07-20-015-19W3	71830	PROD	
SS-SK-023-00001	DIVIDE OIL BATTERY 11-03-003-24W3	72656	PROD	
\$\$-\$K-024-00001	FOSTERTON COMP STN 10-29-016-18W3	71907	PROD	
SS-SK-025-00001	FOSTERTON MAIN UNIT OB 01-10-017-18W3	71913	PROD	
SS-SK-028-00001	GULL LAKE NORTH OIL BATT 13-35-013-19W3	73369	PROD	
SS-SK-030-00001	GULL LAKE WEST OIL BATT 10-28-013-19W3	71992	PROD	
SS-SK-031-00001	GULL LAKE WEST GAS PLANT 05-09-014-19W3	71986	PROD	
SS-SK-031-00002	GULL LAKE NON-UNT WTR PLT 05-09-014-19W3	75712	PROD	
SS-SK-033-00001	JAVA OIL BATTERY 05-28-015-15W3	72303	PROD	
SS-SK-035-00001	LYONS CREEK COMP STN 12-13-002-26W3	75669	PROD	
SS-SK-036-00001	MOOSOMIN OIL BATTERY 01-29-014-31W1	72329	PROD	
SS-SK-038-00001	PREMIER UNIT OIL BATTERY 16-11-015-19W3	73384	PROD	
SS-SK-039-00001	RED JACKET OIL BATTERY 06-04-014-32W1	72405	PROD	
SS-SK-040-00001	ROSS LAKE OIL BATTERY 04-36-013-17W3	72472	PROD	
SS-SK-042-00001	SUCCESS MAIN UNIT OB 06-10-017-16W3	72507	PROD	
SS-SK-043-00001	SUCCESS SOUTH UNIT OB 10-26-016-16W3	73390	PROD	
SS-SK-044-00001	NORTH TOMPKINS OIL BATT 11-12-014-20W3	72524	PROD	
SS-SK-044-00002	NORTH TOMPKINS H2O INJECT 11-12-014-20W3	72346	PROD	
SS-SK-045-00001	SUFFIELD OIL BATTERY 16-18-014-19W3	72984	PROD	
SS-SK-045-00002	SUFFIELD OIL INJECT FACIL 16-18-014-19W3	72514	PROD	A
				1
SS-SK-046-00001	VERLO OIL BATTERY 05-27-016-19W3	73400	PROD	

		T race 4	Innon	
SS-SK-047-00004	EARVIEW COMPRESSOR STN 10-17-013-17W3	70381	PROD	$\dashv \nu$
SS-SK-048-00001	WYMARK COMPRESSOR STN 15-33-012-13W3	72648	PROD	
SS-SK-049-00001	CARMICHAEL OIL BATTERY 13-15-011-19W3	70562	PROD	
SS-SK-050-00001	ANGUS VALLEY OIL BATTERY 02-08-012-18W3	71206	PROD	
SS-SK-050-00036	ANGUS VALLEY DEHY FACILITY 3-34-12-18W3	73665	PROD	
SS-SK-051-00001	SHACKELTON-CS 14-36-020-19W3	70262	PROD	
SS-SK-052-00001	LACADENA CS 01-19-022-17W3	70345	PROD	// /
SS-SK-053-00001	SPRING CREEK 13-26-021-20W3	71921	PROD	Gordo
SS-SK-054-00001	CADILLAC GAS GATHERIN SYS 14-03-011-12W3	72804	PROD	DACA
SS-SK-055-00001	SWIFT CURRENT HILL BTY - WATER DISPOSAL	21796	PROD	
SS-SK-056-00001	SEWARD OIL BATTERY 12-07-015-15W3	73810	PROD	
S-SK-057-00001	CANTUAR EAST SHAUNAVON BTY 09-18-016-16W	73807	PROD	一个
S-SK-058-00001	WHITEBEAR COMP STATION 03-02-023-16W3	73979	PROD	
LOYDMINSTER-prod	BIG GULLEY O.B. 03-34-049-25W3			
LOYDMINSTER	BIG GULLEY C.S. 07-07-050-24W3			
LOYDMINSTER	BIG GULLEY SOUTH C.S. 14-05-050-24W3	1		\neg
LOYDMINSTER	BOLNEY O.B 01-32-052-23W3	<u> </u>		$\exists O /$
LOYDMINSTER	BOLNEY 08-29-052-23W3 INJ	1		1/kb
LOYDMINSTER	BOLNEY 08-32-052-23W3 INJ	-		NICO
LOYDMINSTER	BOLNEY 12-07-052-23W3 RIVER INTAKE			7
	CELTIC C.S. 11-09-052-23W3			_ /
LOYDMINSTER	CELTIC WATER DISPOSAL A10-31-051-23W3			
LOYDMINSTER.	CELTIC WATER DISPOSAL A10-51-051-23W3			
LOYDMINSTER	EDAM WATER DISPOSAL A15-19-048-20W3			
LOYDMINSTER	EPPING WATER DISPOSAL A13-19-040-20W3			
LOYDMINSTER				_
LOYDMINSTER	FURNESS O.B. 14-17-048-27W3			_
LOYDMINSTER	GULLY LAKE O.B. 13&14-23-049-23W3			
LOYDMINSTER	HILLMOND C.S. D8-35-051-26W3			
LOYDMINSTER	LANDROSE O.B. 02-18-050-25W3			
LOYDMINSTER	LASHBURN O.B. 02-02-049-24W3			
LOYDMINSTER	LASHBURN WATER DISPOSAL A3-07-049-23W3			_
LOYDMINSTER	MARSHALL O.B. 12-07-049-26W3	_		
LOYDMINSTER	MERVIN O.B. 01-35-050-21W3			
LOYDMINSTER	MERVIN C.S. 02-26-050-21W3	_		
LOYDMINSTER	NORTHMINSTER C.S. 04-34-050-27W3			
LOYDMINSTER	PIKES PEAK O.B. 04-06-050-23W3			
LOYDMINSTER	RUSH LAKE WATER DISPOSAL D9-06-048-21W3			
LOYDMINSTER	RUSH LAKE WATER DISPOSAL 1A10-01-048-22W3			
LOYDMINSTER	STANDARD HILL WATER DISPOSAL 03-35-049-22W3			
LOYDMINSTER	TANGLEFLAGS O.B. 13-36-050-25W3			
LOYDMINSTER	TANGLEFLAGS NORTH C.S. 10-01-051-25W3			
LOYDMINSTER	TANGLEFLAGS SOUTH C.S. 07-25-050-25W3			
LOYDMINSTER	TANGLEFLAGS WATER DISPOSAL 05-22-051-25W3			
LOYDMINSTER	TANGLEFLAGS WATER DISPOSAL 11-22-051-25W3] '
LOYDMINSTER	WESTHAZEL O.B. 04-03-051-22W3			
LOYDMINSTER	WESTHAZEL WATER DISPOSAL 13-34-050-22W3			
LOYDMINSTERI	Sand Cavern Disposal Site 7-349-27w3m			7
	Edam Lact 9-24-48-21w3m	†		
	Dulwich Lact 10-34-48-27w3m			$\neg \alpha.Y$
	Dulwich Lact 1-26-48-27-w3m	1		700
	E Easy Till Lact 15-14-50-28w3m			Bob Burn
		 		┤ ''
FOADMING I EK-bibeline	Golden Lake Lact #1 14-11-48-23w3m			

LLOYDMINSTER-pipeline Golden Lake Lact #2 6-28-48-23w3m	
LLOYDMINSTER-pipeline HLU Lact 12-31-49-27w3m	e V
LLOYDMINSTER-pipeline Maidstone Booster 9-25-47-23w3m	Box
LLOYDMINSTER-pipeline Neilburg Terminal 2-13-46-26w3m	BUTONS
LLOYDMINSTER-pipeline Tangleflags Lact #3 12-6-51-24w3m	
LLOYDMINSTER-pipeline Tangleflags Lact #4 6-24-50-25w3m	
LLOYDMINSTER-pipeline Tangleflags Lact #5 12-24-52-25w3m	
LLOYDMINSTER-pipeline Tangleflags Lact #6 11-32-50-25w3m	

⊗Husky Oil

Name:

Facilities Engineering and Technical Services

Program: Asset Integrity Program, Pressure Equipment, Piping, Tanks Revision: B

Section: IBP-003a Inspection Best Practices Revised: Dec 7, 2004

Name: PRESSURE RELIEF DEVICE ISOLATION VALVE CONTROL Page # 2 of 12

STATEMENT OF AUTHORITY

This document describes the systems and procedures that are implemented by Husky Energy to ensure that pressure relief device isolation valves are controlled and operated in a manner that assures the safety of personnel, equipment and the environment.

This document has the full support of Husky Energy Western Canada Upstream and Midstream Production Districts' Technical and Operations Management.

The Operating Area Technical Services Manager, assumes overall responsibility to ensure the Pressure Relief Device Isolation Valve Control Procedure is implemented and effective.

Operations Area Managers / Superintendents / Midstream Coordinator and Designated Competent Operating Personnel implement this procedure at all operating facilities where isolation valves are used.

The Lead Inspector has the authority and organizational freedom to initiate corrective action and provide solutions to problems found in the implementation of this procedure.

This procedure has the full support of the Husky Energy Western Canada Upstream Production/Management and personnel. All personnel are required to work within the requirements of this procedure, local jurisdictional regulations, codes, and standards governing their facility. Husky Energy acknowledges that the Jurisdictional Authority has the right to audit, and where applicable, revoke this procedure.

Signatures of Review and Acceptance

Title	Name	Signature	Date
Technical Services Manager:	SUSAN PAYNE	Susmille	2 Mor/4/0
Calgary	_		
Operating Area Manager / Superintendenty Equivalent:	Dave Miller	Dave like	Fch 03/05
EC-PE-Provost			
OPERATIONS DESIGNATE **(Th	is signature required on Fa	cility Copy for audit p	urposes)
facilities, sign and indicates they hav	tioning Personnel, trained of date at this Form on a e read and understood the requirements stated.	per facility basis.	The signature
Name:	Signature:	Date:	
Name:	Signature:	Date:	

This page with Engineering and Management Signatures will be posted on the Husky Intranet.

**This page must be updated or replaced when organizational changes require a new signature.

Signature:

Date:

Musky Oil

Facilities Engineering and Technical Services

Program: Asset Integrity Program, Pressure Equipment, Piping, Tanks Revision: B

Section: IBP-003a Inspection Best Practices Revised: Dec 7, 2004

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	Signa	atures of Review and Ac	ceptance	
	Title	Name	Signature	Date
	Technical Services Manager:	SLOBN/BUNG	Substiff	Mor. 1410 S
•	Operating Area Manager / Superintendent / Equivalent:			
\	Mid Shampeline	Bab Burrows	lobol Burous	2004-12-10
/	OPERATIONS DESIGNATE **(This	s signature required on Fa	acility Copy for audit purp	poses)
	facilities, sign and indicates they have implement all of the Facility:	ioning Personnel, trained date at this Form on a read and understood the requirements stated. This System (per facility basis. The contents of this procedu	Trup, CoLD
	Name:	Signature:	Date:	
\	Name:	Signature:	Date:	/
	Name:	Signature:	Date:	— /
·	ment to the manufacture and the	Hannand Cianaturas W	ill he neeted on the Hus	cy Intranet.

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Program: Asset Integrity Program, Pressure Equipment, Piping, Tanks Revision: E

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Revised: Dec 7, 2004

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Title	Name	Signature Date	
Technical Services Manager:	Suspinit Anno	Yumaya Mor.19	Z
Calgary		40 40	
() /			
Operating Area Manager / Superintendent / Equivalent:	DABIL NAQVI	pei N- 7 2005.	=
Woyd Minster			
			
OPERATIONS DESIGNATE **(Th	is signature required on Fa	cility Copy for audit purposes)	
facilities, sign and indicates they hav implement all of th	d date at this Form on a	and competent in the operation of per facility basis. The signature contents of this procedure and will	•
Name:	Signature:	Date:	
Name:	Signature:	Date:	
Name:	Signature:	Date:	

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PRESSURE RELIEF DEVICE ISOLATION VALVE IN-SERVICE OPERATION AUTHORIZATION RECORD Form # IBP-003a-Fb

Facility Name Facility LSD												
Area Manager /		Operations Designate:										
STATIC DATA												
PRD TAG #			PRD L	ocatio	on		-					
Protected							PRI	D Type:				
Equipment								vice: S] Sour [
Inlet Isolation Outlet Isolation												
Valve Tag #						Valve T	ag #					
REASON FOR IS	OLATIO	N						•				
ALTERNATE ME	ANS OF	OVERP	RESSL	IRE P	RO1	ECTION	1					
Isolation Procedu	ure Num	ber				-						
Mannad Py	nace [1		Manr	20d \	Vont [Pa	rallel Loc	\ <u>\</u>	
Manned By]	Othor		ieu	vent _			га	railei Loc		
Spared Cap	acity _		Other	-								
APPROVALS												
TO BE COMPLET	ED PRI	OR TO I	<u>SOLAT</u>	ION		-					PR	OVED
Area Manager/ Superintendent						Da	te			YES [J	NO 🗌
Operator Designa	ate			· · · · · ·		Da	te			YES	1	NO 🗆
Responsible Tec				·····		Da	te			YES]	NO 🗆
Discipline												
ISOLATION												
1. Alternate Prote	ection in	Place		YES						Date	9	
2. Isolation Valve	s Close	d & Car-	•	YES	П	Operator S	gnature		***************************************	Date	<u></u>	
Sealed						Operator S	gnature					
3. Operational Re	equirem	ents Met	t	YES		Operator S	anaturo			Date	е	
4. Isolation Reco	rded in (Operatio	n	YES			•			Date	е	
Log					_	Operator S	gnature					
5. Pressure Relie	ef Devic	e Replac	ced	YES	Ш	Operator S	gnature			Date	е	
6. Installation Ins	pected	· · · · · · · · · · · · · · · · · · ·		YES		Operator	Inchasta	r Cianatura		Date	е	
7. Isolation Valve	s Open	& Car-		YES		Operator of	inspecto	Signature		Date	 е	
Sealed						Operator S	gnature					
DAILY MONITOR Operations shall initi ensure each shift is a	ial below e	each shift								emains iso	late	d to
Shift/Date												
Operations												



PSV / PRD ISOLATION VALVE INVENTORY (Page_of__) Form # IBP-003a-Fc

Facility / Area Name:						
LSD:	I			Total # of Isolation Valves this location:		
Inventory last verified By:				Date:		
Isolation Valve ID	PSV('s) NO / NC Location Normally Description			Reason for Isolation Valve		