

CHECKLIST (ATTACHMENT 1)**NOTIFICATION OF PROCESS CHANGE CHECKLIST**Originator: STEVE FOLSE Date of Origination: 11/13/95Proposed Date of Change: 3/14/96 Area: METHANES - TOXPermanent ☒ Temporary ☐ From ☐ To ☐Description and Location of Change (Scope) CHANGE P-751 FROM SINGLE SEAL DISCHARGE FLUSH TO DOUBLE SEAL WITH BUFFER FLUIDTechnical Basis for Change: PRESENT SEAL FLUSH PLUGS CAUSING SEAL FAILURESImpact on:
Type of Change ☐ Safety ☒ Loss Prevention ☐ Environment ☐ Health
☐ Alarm ☐ Shutdown Point
☐ Instrument ☐ Process Computer Control
☐ Addition or Removal of Equipment ☐ Piping Modification
☒ Equipment/Material Modification ☐ Chemical
☐ Job Procedure ☐ Other
Pre-Modification Checklist:

Applicable	N/A	Initials	
☐	☒		Consult piping and equipment specifications.
☐	☒		Perform Reactive Chemicals testing. 2/15/94 In-Progress?
☐	☒		Add materials involved to Toxic Substance Control Act (TSCA) inventory.
☐	☒		Calculate impact on F&EI and CEI
☐	☒		Comply with Engineering Practices.
☒	☒		Comply with Technology Center guidelines.
☒	☒	S.F.	Comply with Dow LAD Environmental Project Checklist. <i>OK By ADAMS CONFIRMATION TO S.F.</i>
☒	☒	G.E.	Comply with Safety and Loss Prevention requirements.
☒	☒		Consult maintenance. (Name) <u>[Signature]</u>
☒	☒		Consult instrument and electrical technician. (Name) <u>[Signature]</u>
☒	☒	A.H.	Consult parts technician. (Name) <u>Avis Hamilton</u>
☐	☒		Evaluate and modify relief system. (Name) _____
☐	☒		Contact Industrial Hygiene. (Name) _____
☐	☒		Contact Process Engineering. (Name) _____
☐	☒		Complete required reviews. (Name them) _____
☐	☒		Other _____

Post-Modification Checklist: (Before startup)

☐	☒		Perform pre-startup audit.	1. NEW SEAL # P-200 KE UDR 2 K FPV
☐	☒		Instrument loop drawings.	SUPPLY TANK W/ COOLING COILS WSA23757133 304SS
☐	☒		Electrical drawings.	2. RECOMMEND VENTING PUMP AT STARTUP
☒	☒	J.F.	Complete or update training program.	
☒	☒	J.F.	Job procedures written and approved.	
☒	☒	J.F.	P&ID's, process flow sheets and plot plans updated.	
☒	☒		Personnel trained on the change. <i>via immunization</i>	
☐	☒		Critical instrument checklist updated.	
☐	☒		Computer code and documentation changed.	

FOLLOW UP

Approvals: _____ Name _____ Date 12/11/95

Originator [Signature]

First Reviewer [Signature] 12/11/95

Department Head/Superintendent [Signature] 3/21/96

Form No. 470-00162-291

DO A 025726
CONFIDENTIAL

Equipment, Assembly List or Item Code Form

☒ **New**
PART

☐ **Existing**

Coding Personnel: _____

Date: _____

DO A 025727
CONFIDENTIAL

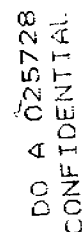
Dow Equipment Tag Number P751A
Dow Equipment Name P751A
Equipment Manufacturer Gould's
Noun (ie: Centrifugal Pump)

Serial Number
Model Number 3996
Type MT
Size

Date 11/27/95
Submitted By STEVE FOLSE - 4465
Plant CMP
Dow Equipment Code 96052396

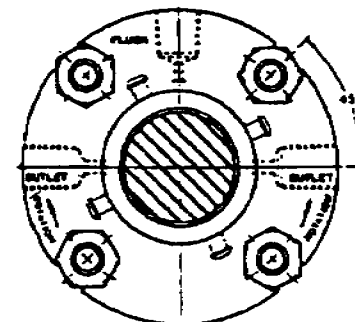
Dow Code Number	Full Manufacturer's Name	Manufacturer Part Number	Description Full (NOUN first)	Manufacturer Drawing Number	Ref. Number	Number Installed	\$\$\$
	DURAMETALIC	160519					
	DURAMETALIC	P200KEUDR2KFPV	MECHANICAL SEAL				*1651.40
	DURAMETALIC	NSA23757133304SS	SUPPLY TANK (NO COOLING COILS)				*735

***Note:** Above fields, excluding \$\$\$ represent minimum information that Coding needs. You may add additional information by attaching written information to this form. Any information supplied for your use should only be added to your copy of Code Form.



SLOT NO. BOLT A	B	B	C	D	E	F	G	H	J	K
	MIN	MAX	MIN					MAX	MIN	
1 000	1 750	1 875	1 78	1 69	2 00	1 02	0 375	0 375	2 75	3 75
1 125	1 750	2 000	1 78	1 69	2 00	1 02	0 375	0 500	3 00	3 88
1 250	2 000	2 125	1 97	1 88	2 00	1 02	0 375	0 500	3 12	4 25
1 375	2 000	2 250	1 97	1 88	2 00	1 02	0 375	0 375	3 25	4 75
1 500	2 250	2 500	1 97	1 88	2 00	1 02	0 375	0 375	3 75	4 75
1 625	2 375	2 625	1 97	1 88	2 00	1 02	0 375	0 500	3 75	4 75
1 750	2 500	2 750	1 97	1 88	2 00	1 02	0 375	0 500	3 75	5 00
1 875	2 625	2 875	1 97	1 88	2 00	1 02	0 375	0 500	3 88	5 00
2 000	2 750	3 000	1 97	1 88	2 00	1 02	0 375	0 625	4 12	5 12
2 125	2 875	3 250	1 97	1 88	2 00	1 02	0 375	0 625	4 38	6 00
2 250	3 000	3 375	1 97	1 88	2 00	1 02	0 375	0 625	4 62	6 50
2 375	3 250	3 625	2 16	2 06	2 09	1 11	0 375	0 625	5 00	6 38
2 500	3 375	3 750	2 16	2 06	2 09	1 11	0 375	0 625	5 00	6 62
2 625	3 500	3 875	2 16	2 06	2 09	1 11	0 375	0 750	5 75	7 25
2 750	3 750	4 062	2 16	2 06	2 62	1 58	0 500			
2 875	3 875	4 187	2 16	2 06	2 62	1 58	0 500			
3 000	4 000	4 312	2 16	2 06	2 62	1 58	0 500			
3 125	4 250	4 562	2 16	2 06	2 62	1 58	0 500			
3 250	4 375	4 687	2 28	2 19	2 75	1 71	0 500			
3 375	4 500	4 812	2 28	2 19	2 75	1 71	0 500			
3 500	4 625	4 937	2 28	2 19	2 75	1 71	0 500			
3 625	4 750	5 062	2 28	2 19	2 75	1 71	0 500			
3 750	4 875	5 187	2 28	2 19	2 75	1 71	0 500			
3 875	5 000	5 312	2 28	2 19	2 75	1 71	0 500			

THE BOLT DIAMETER
BOLT CIRCLE AND
BLAND OD FOR
SHAFT AND SEAL
SIZES 2750"
THRU 3875" WILL
BE DETERMINED
BY EQUIPMENT
REQUIREMENTS.

[illegible][illegible]

REQUEST FOR REVISION

11/27/95
Date of Request

CMP
Plant

⁴⁴⁶⁵
STEVE FOLSE/ REL ENGR
Request by/Position

P751A/ 96052396
EQ ID/Tag/Code #

Describe Revision (listing all pertinent code numbers, etc.):

1. REMOVE Gould's PART NO. RC04372A13-120K
FROM MSMS PARTS LISTING - 8817953
- SEAL → 2. REMOVE DURAMETALLIC PART NO. - BM#151883 Dow Code#1515203
- SEAL → 3. ADD DURAMETALLIC PART NO. - P-200(KE)(U/DR)ZKFFV
4. ADD DURAMETALLIC PART NO. - WSA23757133 30KSS - 8145184

12-7-95
Date Completed
CWH
Approval Signature

[Signature]
Completed by
12-7-95
Date

Comments: _____

is
2/95

DO A 025729
CONFIDENTIAL

12/06/95

13:10

1 504 752 2717

001

TO AVIS
FROM STEVE FOLSE ph 4465

~~829~~
8923

DURAMETALLIC REGIONAL SERVICE CENTER

11637 Industriplex Blvd, Baton Rouge, LA 70809

Phone Number (504) 752-4320

Fax Number (504) 752-4332

From:

LQ Bonial Q

DATE:

12/6/95

To:

STEVE FOLSE# of Pages Including Cover Sheet 3

CC:

353-2215

REMARKS:

☐ Urgent☒ For Your Review☐ Reply ASAP☐ Please Comment

B/m 160519 FOR P200 SEAL
CMP UNIT P751A/B
Dow's Cost \$ 1380.⁸⁸

DO A 025730
CONFIDENTIAL

B/M NO: 160519

Durametallic
 Sealing Systems Worldwide

DURA SEAL BILL OF MATERIAL

DISTRIBUTION

DOUBLE INSIDE/OUTSIDE CARTRIDGE

EQUIPMENT: PRE ENGINEERED
PER 2D-281576

TYPE P-200

DURA SEAL SIZE

1.750 IN

EQUIP DWGS:

FORM DRAWING 2D-281576

* OPTIONS:
SHAFT SIZE:

MAT'L NOTES:

MATERIAL

REFERENCES:

CODE: K/E U/DR 2 K F P/V P/V

QTY	PRODUCT CODE	DESCRIPTION	QTY PER ASSY
3	KU3D1750T33	TUNG CAR 62-6 SEAL RG P-200	1
45	KKXR1750T33	20 SS COMP UNIT P-200	1
M1	NK3R1750T33	20 SS RETAINER P-200	1
ST	NK3Y1750T33	20 SS SPG RET P-200	1
D1	MKAX8840205	20 SS PN 0.094 X 0.44	4
D2	MKAX88402CB	20 SS PN .062 X .188 +/- .005	4
5	LK3R1750T33	20 SS COL P-200	1
S	MKAX8840426	20 SS SET SCW 10-24 X 0.25	6
C	MIAX8840322	HAST C SPG NO 35	16
M	MPUR0062333	KALREZ O-RG	4
3A	KDRA1750T33	17-4 PH COND H1150 NO 5 CBN S	
		EAL RG P-200	1
	BR3A1750T33	NO 5 CBN SEAL RG ELEMENT P-20	
		0	1
C1	MIAX8840305	HAST C SPG NO 00	8
5A	LE3M1750T33	316 SS COL P-200	1
S1	MLA21837033	17-4 PH COND H900 CUP PT SET	
		SCW	4
S2	MKAX8840521	20 SS HALF DOG SET SCW 10-24	
		X 0.37	2
D3	MKAX8840223	20 SS PN 0.125 X 0.56	2
P	MPVR1875333	KALREZ O-RG	1
P1	MPVR2125333	KALREZ O-RG	1
P2	MVSR1875333	VIT O-RG	1
2	A23M1875DC3	SILICON CARBIDE 2 INST	1
6	MPVR2312333	KALREZ O-RG	1
2A	A23M1875DC3	SILICON CARBIDE 2 INST	1
6A	MVVR2312333	VIT O-RG	1

12/06/95 BALLR

*** CONTINUED ON NEXT PAGE ***

PAGE 1

BOS 18 11/09/91

DO A 025731
CONFIDENTIAL

003

DURA SEAL BILL OF MATERIAL

DISTRIBUTION

**EQUIPMENT: PRE ENGINEERED
PER 2D-281576**

TYPE P-200

DURA SEAL SIZE

1.750 IN

EQUIP DWGS:

FORM DRAWING 2D-281576

★ **OPTIONS:**
SHAFT SIZE:

MAT'L NOTES:

REFERENCES:

MATERIAL

CODE: K/E U/DR 2 K F P/V P/V

[illegible]

12/06/95 BALLR

PAGE 2

209 18 111094R1

DO A 025732
CONFIDENTIAL

Unknown

From: u091506
Sent: Wednesday, March 13, 1996 3:17 PM
To: JJOHNSON; BABEIELER; CJBICKHAM; CEBISHOP; JPBURG; RWBREAUX; NACAVALIER;
FJCOOK; JHEKEY; WCGRANT; DCGRAVOUILLA; DRHARRISON; OJJACK; RJACKSON1;
RTLLOONEY; DJMETREJEAN; RSMILLENDER; DCWOLFE
Cc: JRCOOK; DRDUGAS; AJMICHEL
Subject: New seal for P-751
Sensitivity: Confidential

A new double seal will be installed on P-751 on Thursday, 3/14/96 in order to reduce seal failures caused by plugging in the seal flush tubing. This seal will be similar to the tandem seals used in the plant where oil is used as a barrier fluid. For this seal, CP-4604-32-F will be used as the barrier fluid (same as P-1320's, P-1541's, and P-1450's). However, this seal is different from some of the other seals in the plant in that it is designed to leak a small amount of barrier fluid (oil) into the process. Since the material in D-751 is waste, this is not a problem. In order for the seal to operate properly, though, the seal oil pot must run under pressure via a nitrogen pad. The pressure must be maintained between 40-45 psig. Also, since a small amount of oil will leak into the process, oil must be added to the pot on a periodic basis (should not be very often since the leak rate is supposed to be approximately 3 ml/day). A primary seal failure is evident if the leak rate is excessive (seal oil pot level drops quickly).

After the new seal is installed, please remember to check the seal oil pot pressure and level when making the throx round. Add oil and N2 when needed.

I've modified the weekly pump round log sheet to include these checks as well.

If you have any questions, please let me know.

Jim Haney

CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: 3/13/96, 1995

FROM: Jim Haney

SUBJECT: Please read your microsoft mail message concerning the new seal for P-751 (copy of message is attached). This seal will be installed on 3/14/96.

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

PERSONS NEEDING TO REVIEW

Day Staff	Supervisors	SOS's	OS's	Loaders
	<u>X</u>	<u>X</u>	<u>X</u>	
Init. Date	Init. Date	Init. Date	Init. Date	Init. Date
Clebert	Cook J. <u>JC</u> 3-16	Breaux <u>LB</u> 3/17/96	Bishop <u>BS</u> 3/13	Armand
Haney	Dugas <u>DD</u> 3/14	Beieler <u>BB</u> 3/14/96	Bourg <u>BB</u> 3-13	Doucet
Kelley	Day Oper.	Bickham <u>BJ</u> 3/13/96	Davis	
Ledoux	<u>JS only</u>	Cook F. <u>FC</u> 3-15-96	Ekey <u>KE</u> 3/21	Instruments
McMurray		Cavalier <u>MC</u> 3-15-96	Harrison <u>HR</u> 3-14	
Michel <u>A.M.</u> 3/12/96	Donatto	Grant <u>GR</u> 2-13-96	Jack <u>JS</u> 3-16	Neyland
Rizzo	Grace	Gravouilla <u>GG</u> 3-14-96	Looney <u>LL</u> 3-14	Shanklin
Taylor <u>MT</u> 3/14/96	Johnson <u>JO</u> 3/14	Jackson <u>RJ</u> 3-15	Wolfe <u>DW</u> 3-15-96	
Witt	Simonson	Millender	Millender <u>MS</u> 3/14	
Jung	Vavasseur	Metrejean <u>DM</u> 3/15		

DO A 025734
CONFIDENTIAL