PLAINTIFF'S EXHIBIT

CHV-826

TO [redacted] (2) [redacted] (3) JLC

APPROVE		REMARKS
COMMENT		
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SEE ME		
TRACE		

FROM

GO-24 (3,000M 11-53)

MEMORANDUM GO-144

TO: File — July 18 1961

FROM: MR. J. T. Calkins

SUBJECT: Gaskets in Caustic Service — OUR FILE: 05-157

YOUR FILE:

Per recommendation of Hayden and Hall, additional tests were conducted on Ray Beaton 680 and John Manville 60 gasket materials.

Below are tabulated the results.

Gasket Material	Treatment (48 Hours)	Failure psi
Ray Beaton 680	Soaked in Caustic (175°F)	1600
"	" " "	1500
John Manville 60	" " "	2,150
"	" " "	2,000

NOTED JUL 19 1961 C. D. HALL

J.E.H. - The above data is consistant with the first tests. John Manville #60 appears to be a much better material than Ray Beaton 680. We will notify Purchasing not to substitute for J-M #60 without Engineering approval.

D. Hall

RECEIVED JUL 19 1961 J. E. HAYDEN

WHEN REPLY IS REQUIRED, FORWARD ORIGINAL AND ONE COPY. GO-144 (5,000M-4-56)

Chevron BB 015463

TO ① ~~CDH~~ ② ~~IGH~~ ③ ~~IHC~~

APPROVE		REMARKS See attachment
COMMENT		
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TRACE		

FROM J. S. Collins

GO-24 (3,000M 11-53)

Chevron BB
015464

MEMORANDUM GO-144

TO: ~~Mr.~~ File

July 5 1961

FROM: MR. J. L. Collins

SUBJECT: Gaskets in Caustic Service OUR FILE: 05-157

YOUR FILE:

Some of the caustic service lines have been leaking at the flanged joints in Gas Recovery No 1. Ed Delaney said the bottom portion of the old gaskets disintegrated when removed from a leaking joint.

Three different gasket materials were subjected to an accelerated test to determine a suitable gasket material for caustic service. Below are tabulated the results for 3-inch 150 pound gaskets.

RECEIVED
JUL 6 1961
J. E. HAYES

Gasket (A1) Material	No Tested	Treatment (48 Hours)	Failure PSI
Ray Baxter 680	1	Soaked in Caustic (175°F)	1,600
Johns Manville 60	1	"	2,100
Bi-Metal-Ic	1	"	2,150

(A1) Ray Baxter 680 and John Manville 60 are listed as equivalents.

Chevron BB
015465

MEMORANDUM GO-144

TO: ~~MR.~~ File

FROM: MR. J. T. Calkins

July 5 1961

SUBJECT: Gaskets in Caustic Service

OUR FILE: 05-157

YOUR FILE:

From the test conducted the John Manville 60 gasket material is 31% stronger than the Ray Bestos 680.

Purchasing indicated that the base price for Ray Bestos 680 and John Manville 60 are the same, however, Jamesbury gives a slight price advantage for quantity purchases for the Ray Bestos 680.

L. B. Martinez showed me how the American Gasket equivalent of John Manville 60 becomes brittle during storage and breaks with any handling.

Recommendation

That the so called equivalents of John Manville 60 not be considered acceptable gasket material for caustic service.

J. E. Hayden

Subject: Gasket

I don't know whether these gaskets are failing because of caustic or poor installation. From what I have seen it could have been some of both. The major problem with the gasket situation is that Purchasing substituted an "equivalent" material for J.M. #60 without getting approval from Eng and/or Maint.

I suggest we have a few more gaskets tested to verify the results shown in Collins memo (7-5-61). If the JM-#60 gaskets prove superior then we should request Purchasing to secure JM-60 material and not to substitute without approval from the engineering specialist.

NOTED
JUL 06 1961
C. D. HALL

7-5-61

Chevron BB
015467

MEMORANDUM GO-144

TO: MR. File — July 5 — 1961

FROM: MR. J. L. Collins

SUBJECT: Gaskets in Caustic Service — OUR FILE: 05-157

YOUR FILE:

Some of the caustic service lines have been leaking at the flanged joints in Gas Recovery No 1. Ed Dykaney said the bottom portion of the old gaskets disintegrated when removed from a leaking joint.

Three different gasket materials were subjected to an accelerated test to determine a suitable gasket material for caustic service. Below are tabulated the results for 3-inch 150 pound gaskets.

Gasket (A) Material	No Tested	Treatment	Failure PSI
Ray Beston 660	1	Soaked in Caustic (175°F)	1,600
John Manville 60	1	"	2,100
Bi-Metal-Ic	1	"	2,150

(A) Ray Beston 660 and John Manville 60 are listed as equivalents.

Chevron BB 015468

WHEN REPLY IS REQUIRED, FORWARD ORIGINAL AND ONE COPY.

GO-144 (6,000M-4-56)

MEMORANDUM GO-144

TO: ~~MR.~~ File

FROM: MR. J. T. Calkins

July 5 1961

SUBJECT: Gaskets in Caustic Service

OUR FILE: 05-157

YOUR FILE:

From the test conducted the John Manville 60 gasket material is 31% stronger than the Ray Baxter 680.

Purchasing indicated that the base price for Ray Baxter 680 and John Manville 60 are the same, however, Johns gives a slight price advantage for quantity purchases for the Ray Baxter 680.

S. B. Martin also showed me how the American Gasket equivalent of John Manville 60 became brittle during storage and breaks with any handling.

Recommendation

That the so called equivalents of John Manville 60 not be considered acceptable gasket material for caustic service.

Chevron BB
015469

MEMORANDUM GO-144

TO: File

July 18 1961

FROM: MR. J. L. Collins

SUBJECT: Gaskets in Caustic Service

OUR FILE: 05-157

YOUR FILE:

Per recommendation of Hayden and Hall additional tests were conducted on Ray Bestos 680 and John Manville 60 gasket materials.

Below are tabulated the results.

Gasket Material	Treatment	Failure psi
Ray Bestos 680	Soaked in Caustic (175°F)	1,600
"	" " "	1,500
John Manville 60	" " "	2,150
"	" " "	2,000

Chevron BB
015470

WHEN REPLY IS REQUIRED, FORWARD ORIGINAL AND ONE COPY. GO-144 (5,000M-4-56)