

**APPLICATION FOR RENEWAL OF APPROVAL FOR PRESSURE RELIEF  
DEVICES, VALVES, CLOSURES, AND FITTINGS**

1. AAR APPROVAL No. PRD 172103  
2. Date of Application March 16, 2017  
3. Previous AAR Approval PRD 099018  
4. Applicant: Engineered Controls International, LLC  
5. Address: 100 RegO Drive Elon, North Carolina 27244 USA  
6. Drawing No. A8434F\_Ser 7. Latest rev. J 8. Date of latest rev. 05-16-2016  
9. Description of device: Safety Relief Valve 10. Device ID No. \_\_\_\_\_

**CERTIFICATION:** The subject device is **unchanged** from the previous approval, and conforms with the latest revision of AAR Specifications for Tank Cars, Appendix A. The device conforms with drawing listed above.

11. By: \_\_\_\_\_ Title: \_\_\_\_\_

If device is **changed** since latest approval, fill in the following blanks

12. Reference Previous Drawing	New Drawing	If on Service Trial
No. _____ Rev. _____ Date _____	No. _____ Rev. _____ Date _____	S.T. No. _____
No. _____ Rev. _____ Date _____	No. _____ Rev. _____ Date _____	S.T. No. _____
No. <u>A8434F_Ser</u> Rev. <u>H</u> Date <u>04-17-2014</u>	No. <u>A8434F_Ser</u> Rev. <u>J</u> Date <u>05-16-2016</u>	S.T. No. _____

13. New drawing supersedes previous one ☒ or does not obsolete it ☐

**CHANGES**

**REASONS FOR CHANGES**

- |  |   |
|--|---|
| 14. a. <u>Add Dow Emulsion to seat</u> | a. <u>Lubricate seat to prevent sticking</u>              |
| b. <u>Change label size</u>            | b. <u>to allow more clearance between label and bolts</u> |
| c. <u>add spot face to bolt holes</u>  | c. <u>to allow flat surface for stud nuts</u>             |
| d. _____                               | d. _____  |
- (if needed use supplemental sheet)

15. Normal operational effect of changes of device: (a) prevent seat sticking during storage  
b) prevent assembly sockets from contacting label, c) to provide flat surface for stud/nut version

16. Drawing submitted with this application: A8434F-Ser Rev J, 11550-734 Rev A, A8434F-99 Rev C, A8434F-1A Rev B

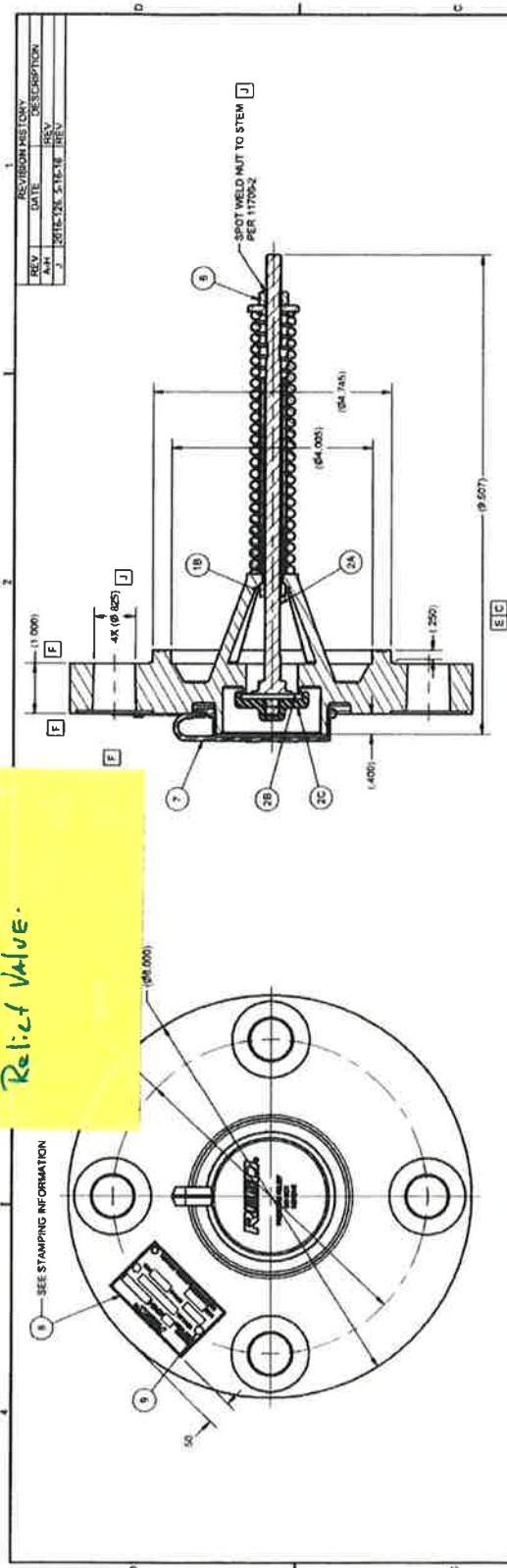
**CERTIFICATION:** The above data is correct and conforms with AAR Specifications for Tank Cars, Appendix A. The device conforms with drawing listed above.

17. By: Seage M. Smyke Title: Vice President Quality Assurance 3/16/2017

APPROVAL AAR Tank Car Committee:

Date Approved: 5/10/17 \_\_\_\_\_  
(Signature) on behalf of Committee

NEW DRAWING  
for A8434  
Relief Valve.



# STAMPING INFORMATION ALL STAMPING MUST BE LEGIBLE

EXAMPLE OF ASSEMBLY  
SCALED 1:1 REFERENCE COLORED



VALVE NUMBER	SUFFIX NUMBER	SET PRESSURE (PSIG)	FLOW DATA (SCFM AIR)	PRESSURE (PSIG)	START TO DISCHARGE (PSIG)	SPRING	BODY ASSEMBLY	WASHER	WASHER
A8434F-A075	F075	75	800	82.5	±3%	A8434-2585	A8434-21A	A8434-4	A8434C-10
A8434F-A165	F165	165	2238	181.5	±3%	A8434-2585	A8434-21A	A8434-8	NO
A8434F-A185	F185	185	2238	181.5	±3%	A8434-2585	A8434-21A	A8434-8	NO
A8434F-A200	F200	200	2458	208.5	±3%	A8434-2585	A8434-21A	A8434C-8	YES
A8434F-A280	F280	280.5	3450	308.5	±3%	A8434-2585	A8434-21A	A8434C-8	YES
A8434F-A300	F300	300	3785	330	±3%	A8434-2585	A8434-21A	A8434C-8	YES
A8434F-A320	F320	320	4136	363	±3%	A8434-2585	A8434-21A	A8434C-8	YES

## NOTES

- TEST PER 7545-100
- STEM & RETAINER ASSEMBLY ARE TO BE DIPPED INTO 1550-74 EMULSION PRIOR TO ASSEMBLY.
- ACQUIRE AAR CERTIFICATION SHEET 2196AAR.5 AND SERIAL NUMBER FROM Q A

NOTE A: PREFIX IDENTIFICATION

WHEN USED ON "A" SERIES (EPDM SEAT) RELIEF VALVES, ADD PREFIX "E" TO RELIEF VALVE STAMPING IDENTIFICATION

WHEN USED ON "NA" SERIES (NITROGEN SEAT) RELIEF VALVES, ADD PREFIX "N" TO RELIEF VALVE STAMPING IDENTIFICATION

WHEN USED ON "VA" SERIES (VITON "B" SEAT) RELIEF VALVES, ADD PREFIX "V" TO RELIEF VALVE STAMPING IDENTIFICATION

WHEN USED ON "VAA" SERIES (VITON "A" SEAT) RELIEF VALVES, ADD PREFIX "VA" TO RELIEF VALVE IDENTIFICATION

VALVE PREFIX NUMBER	STEM & RETAINER ASSY (PREFIX IDENTIFICATION)
A	NITRILE
EA	EPDM
NA	NITROGEN
VA	VITON "B"
VAA	VITON "A"

ITEM	QTY	DESCRIPTION	MATERIAL	ASTM NUMBER
13	1	NO. 3 WARNING SHEET (NOT SHOWN)		A8434-500
12	1	NO. 4 WARNING SHEET (NOT SHOWN)		8945-500
11	1	INSTRUCTION SHEET (NOT SHOWN)		A8434F-300
9	2	CUTTING	STEEL, PLATED	2465-32
8	1	WASHER, THREAD	ALUMINUM 6061-T6	A8434F-98
7	1	WASHER, PLATE	RESILIENT RUBBER	7555-40X
6	1	WASHER, PLATE	STEEL, PLATED	7555-9
5	1	WASHER, SHOULDER	STEEL, 15-7 PH, 1/4" DIA, 1/8" TELLURUM LEAD (UNS G1144)	ASTM A108
4	1	SPRING, CYLINDRICAL	STAINLESS STEEL-17-7 ASTM A313 (UNS S77700)	ASTM A313
3	1	WASHER	300 SERIES STAINLESS STEEL	SEE STAMPING INFO
2C	1	RETAINER, POPPET	STAINLESS STEEL-300 (UNS S30300)	ASTM A302
2B	1	DISC, SEAT	SEE TABLE 2	
2A	1	STEM, POPPET	STAINLESS STEEL-302HQ (UNS S30200)	ASTM A303
2	1	STEM & RETAINER ASSY		SEE TABLE 2
1C	1	GUIDE, SPRING	STAINLESS STEEL-304	ASTM A304
1B	1	BUSHING	STAINLESS STEEL-17-7 PH (UNS S17400)	ASTM A564
1A	1	BODY, TESTED	STAINLESS STEEL-CP-17-7 (UNS S31600)	ASTM A743
1	1	BODY ASSY		GRADE CP-8

ITEM	QTY	DESCRIPTION	MATERIAL	ASTM NUMBER
1	1	STEM & RETAINER ASSY		SEE STAMPING INFO

ITEM	QTY	DESCRIPTION	MATERIAL	ASTM NUMBER
1	1	STEM & RETAINER ASSY		SEE STAMPING INFO

ITEM	QTY	DESCRIPTION	MATERIAL	ASTM NUMBER
1	1	STEM & RETAINER ASSY		SEE STAMPING INFO

REVISION HISTORY		
REV	DATE	DESCRIPTION
A	AE397, 10-26-07	ISSUED

Lubricant

**DOW CORNING 36 EMULSION**

COMPOUND: DOW CORNING 36 EMULSION

DOW CORNING CORPORATION  
SOUTH SAGINAW ROAD  
MIDLAND, MI 48686

REFERENCE SPEC: NONE

COLOR: MILKY WHITE FLUID

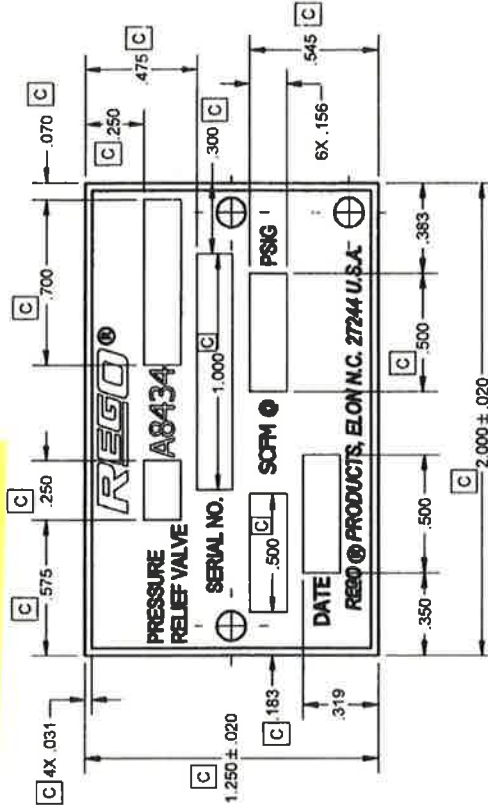
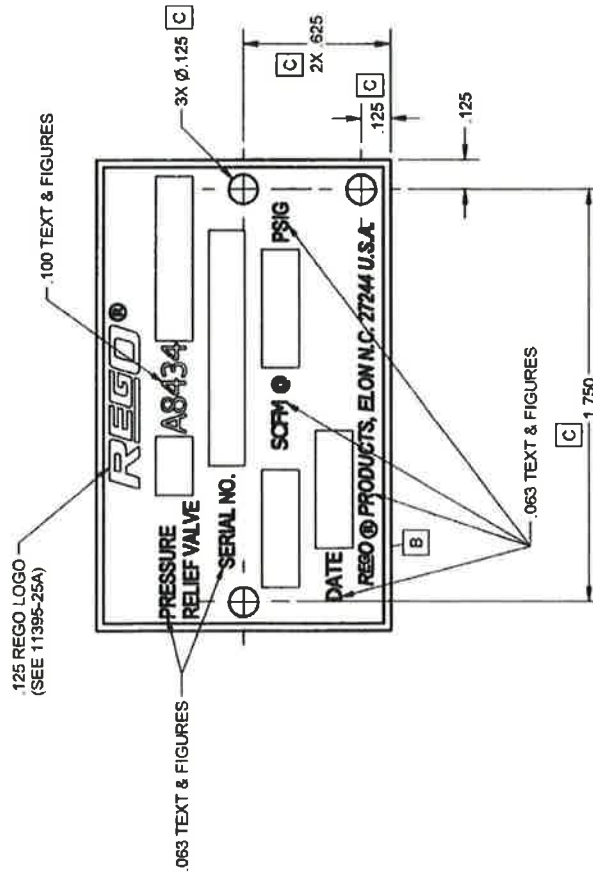
APPLICATIONS: RELEASE AGENT FOR RUBBER PARTS

APPROVED/CONTROLLED

DRAWN L. MARSHALL		ISSUED DATE 10/26/2007		UNLESS OTHERWISE SPECIFIED: 2 PL DEC .015 3 PL DEC .02 4 PL DEC .0005 ANGLES 1~  CONCENTRICITY .010 FIM FINISH 125 MAX, REMOVE BURRS, BREAK SHARP EDGES R.015 MAX INTERPRET DIMENSIONS & TOLERANCES PER ASME Y14.5M-1994 A -CHANGES GAUGES- 1	<b>ENGINEERED CONTROLS INTERNATIONAL, INC.</b> ELON, N.C. 27244	
CHECKED T. TICKLE		CHECKED DATE 11/27/2007			THIS DRAWING IS ECII PROPRIETARY INFORMATION. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
INSPECTED J. SATTERFIELD		INSPECTED DATE 11/28/2007			TITLE  <b>SPECIFICATION DOW CORNING 36 EMULSION</b>	
APPROVED D. GENTILE		APPROVED DATE 12/5/2007			DRAWING NUMBER  <b>11550-734</b>	
REFERENCE NUMBER		IDENTIFIER				
PROJECT NUM	VARIANT DIM	SCALE NONE	REV LEVEL A			

New Nameplate  
Configuration




REVISION HISTORY		
REV	DATE	DESCRIPTION
A	AG484, 11-16-09	ISSUED
B	AH267, 8-11-10	REV
C	2016-225, 9-13-16	REV



NOTES:

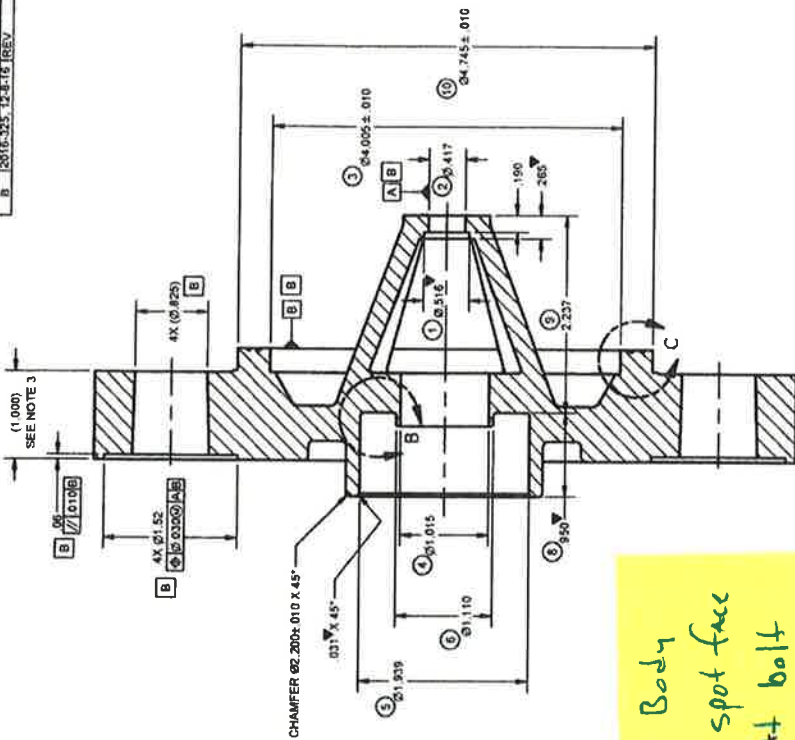
1. ALL DIMENSIONS TO BE  $\pm 0.15$  UNLESS OTHERWISE SPECIFIED
2. ALL TEXT & FIGURES, BORDERS & PADS TO BE ALUMINUM, RAISED AND POLISHED ON PANTONE 186C RED BACKGROUND.
3. ECII TO STAMP PADS WITH .094 FIGURES.

**MATERIAL: 24 GA. (.020 THK) ALUMINUM SHEET**

DRAWN	A. WYATT	ISSUED DATE	11/15/2009	UNLESS OTHERWISE SPECIFIED: 1/8" = 1'-0" 2" DEC = 1'-0" 4" DEC = 1'-0" 1/4" DEC = 1'-0" ANGLES = 1"	CONCRETE: 210 PSI FRESH WEIGHT BLANKS: BREAK SHARP EDGES: 1/8" X 1/4" INTERFACET: CONCRETE & TOLERANCES PER ASME 11.5.1-19.4	ENGINEERING CONTROLS INTERNATIONAL, INC. SUN, NC 27844 THIS DRAWING IS NOT PROPRIETARY INFORMATION. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED		NAMEPLATE, AAR LPG & NH3 FOR RAIL-CAR RELIEF VALVE		DRAWING NUMBER	A8434F-99	DWG. SIZE	B
CHECKED	N. LEE	CHECKED DATE	10/24/2016										
INSPECTED	V. PERI	INSPECTED DATE	10/25/2016										
APPROVED	V. PERI	APPROVED DATE	10/25/2016										
REFERENCE NUMBER	IDENTIFIER												
PROJECT NAME	VERIFICATION	SCALE	2:1	REV. LEVEL	C	  							

AAR

REV	DATE	DESCRIPTION
A	2013-280 7-1-13	ISSUED
B	2016-325 12-2-15	REV

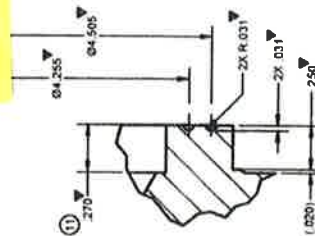
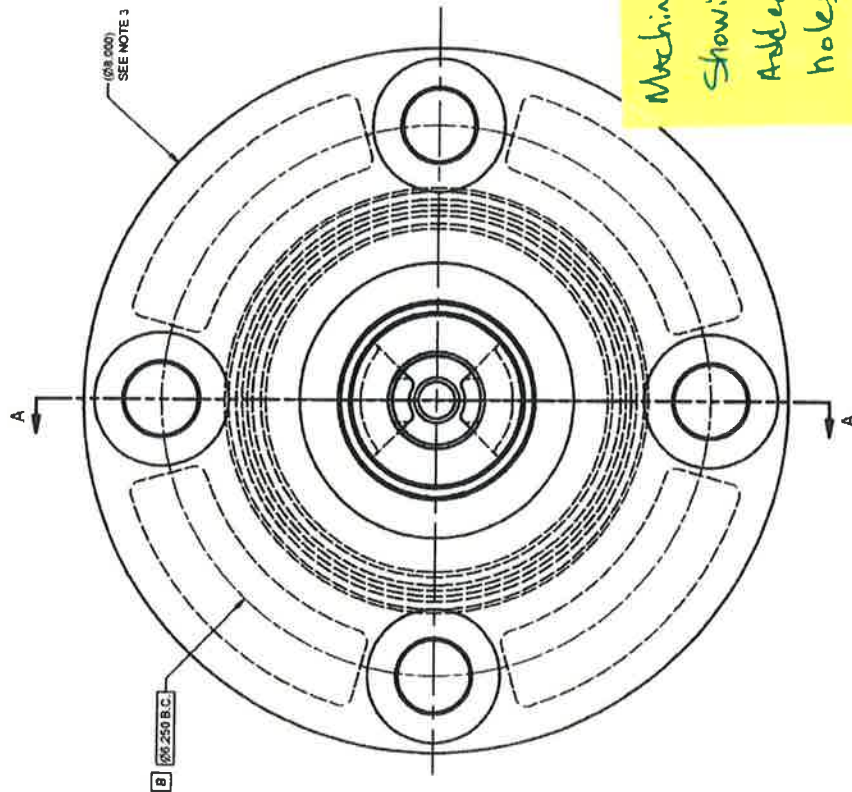


SECTION A-A

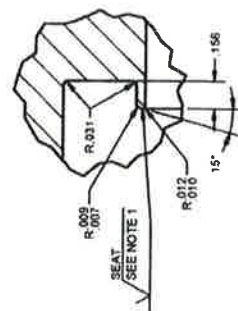
Machined Body  
Showing spot face  
Added At bolt  
holes

NOTES:

1. SEALING SURFACES TO BE SMOOTH & FREE OF VISIBLE FLAWS, CHATTER AND NON-CONCENTRIC TOOL MARKS TO PRODUCE A GAS TIGHT SEAL.
2. CLEAN PER 1156-118 TO REMOVE CUTTING FLUID, CHIPS, AND DEBRIS.
3. THESE SURFACES CAN BE MACHINED TO IMPROVE MACHINE FITTING.



DETAIL C  
SCALE 2:1



DETAIL B  
SCALE 2:1

BODY, CAST (CF-8M (316) STAINLESS STEEL PER ASTM A351-CF8M)		DESCRIPTION		PART NUMBER	
DESIGNER	DATE	DESIGNER	DATE	PART NUMBER	
A. WATKINS	7/1/2013	N. LEE	12/21/2016	A8434F-1SC	
C. HERMAN	12/21/2016	C. HERMAN	12/21/2016	A8434F-1A	
C. HERMAN	12/21/2016	C. HERMAN	12/21/2016	A8434F-1A	
C. HERMAN	12/21/2016	C. HERMAN	12/21/2016	A8434F-1A	
C. HERMAN	12/21/2016	C. HERMAN	12/21/2016	A8434F-1A	
C. HERMAN	12/21/2016	C. HERMAN	12/21/2016	A8434F-1A	
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C. HERMAN	12/21/2016	C. HERMAN	12/21/2016	A8434F-1A	
C. HERMAN	12/21/2016	C. HERMAN	12/21/2016	A8434F-1A	
C. HERMAN	12/21/2016	C. HERMAN			



Image

THIS CHECK IS VOID WITHOUT A BLUE AND GREEN BACKGROUND AND AN ARTIFICIAL WATERMARK ON THE BACK - HOLD AT AN ANGLE TO VIEW

**REGO** *Engineered Controls Int'l.*

P.O. BOX 247  
Phone (336) 449-7707

ELON, NC 27244 USA  
Fax (336) 449-6594

Wells Fargo Bank, N.A.

11-24  
1210

CHECK DATE  
3/16/17

CHECK NO  
285256

CHECK AMOUNT  
\$ \*\*\*\*\*400.00

FOUR HUNDRED AND 00/100\*\*\*\*\*

TO THE ORDER OF  
ASSOCIATION OF AMERICAN RAILROADS  
DIRECTOR OF TANK CARS  
50 F STREET N.W.  
WASHINGTON DC 20001-1564

UNDFR \$2000.00 - ONE FACSIMILE SIGNATURE REQUIRED  
\$2000.00 AND OVER - TWO MANUAL SIGNATURES REQUIRED

*Larry Payne*  
AUTHORIZED SIGNATURE

AUTHORIZED SIGNATURE

BORDER CONTAINS MICROPRINTING

⑈ 285256 ⑆ ⑆ 121000248 ⑆ 2014470019877 ⑈

FOR DEPOSIT ONLY - FRONT AND BACK - HOLD AT AN ANGLE TO VIEW

THIS CHECK CONTAINS THE FOLLOWING SECURITY FEATURES:

1. GENUINE COLOR AND GREEN BACKGROUND
2. ARTIFICIAL WATERMARK ON THE BACK
3. MICROPRESSURE PRINTING
4. TOLL FREE 1-800-855-7707
5. SECURITY FEATURES: SECURITY FEATURES: SECURITY FEATURES
6. SECURITY FEATURES: SECURITY FEATURES: SECURITY FEATURES
7. SECURITY FEATURES: SECURITY FEATURES: SECURITY FEATURES

For Deposit Only  
Association of American Railroads  
0000206555059  
1  
425 3rd St SW

## Item Details

Amount: 400.00

Check #: 285256

Posting Date: 03/30/2017

As of Date: 03/30/2017

Issue Date: 03/16/2017

Account Number/Account Name: 2014470019877/ECII DISBURSEMENT

Routing Number: 121000248

Type Code/Description: 475/CHECK PAID

Payee: ASSOCIATION OF AMERICAN RAILROADS

Item Sequence Number: 8214758706

Additional Item Details: 0000017+000000437902926

CHECK



## **George McGonagle**

---

**From:** George McGonagle  
**Sent:** Friday, April 07, 2017 3:26 PM  
**To:** 'Forister, Matthew'  
**Cc:** John Williams  
**Subject:** ECEN  
**Attachments:** image\_20170407104916 Canx Check Copy.PDF; AAR A8434F application 031617.pdf

Matt – Attached is a copy of the application that was mailed to the AAR for changes made to A8434F series relief valves. I will send another copy via FedEx to your attention. I have also attached a copy of the \$400 check what was with the original application showing it was deposited and has cleared our bank as of 3/30/17.

George McGonagle  
VP Quality Assurance  
Engineered Controls Int / RegO

## George McGonagle

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**From:** Forister, Matthew <mforister@aar.org>  
**Sent:** Wednesday, March 15, 2017 2:01 PM  
**To:** George McGonagle  
**Cc:** Dorsey, Ken; Fronczak, Robert; Forister, Matthew  
**Subject:** RE: Root Cause Corrective Action Report Update

George,

The fee structure is outlined in 2017 AAR Office Manual Appendix E.

Please submit the renewal application 4-7 from the November 2014 version of the M-1002 with all applicable drawings.

Thanks,

Matthew Forister  
Director, Tank Car/Hazmat Safety  
Association of American Railroads  
[425 Third Street, SW Suite 1000](#)  
[Washington, DC 20024](#)

Phone: [202-639-2260](tel:202-639-2260)  
Email: [mforister@aar.org](mailto:mforister@aar.org)

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**From:** George McGonagle [<mailto:gmcgonag@regoproducts.com>]  
**Sent:** Wednesday, March 15, 2017 1:51 PM  
**To:** Forister, Matthew <mforister@aar.org>  
**Subject:** RE: Root Cause Corrective Action Report Update

Not yet, I am not able to get the check for payment until tomorrow.

Its form AAR4-7 and \$400 fee, correct? That's what I found in the Office Manual and plan to mail in tomorrow by FedEx.

George McGonagle  
VP Quality Assurance  
Engineered Controls Int / RegO

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**From:** Forister, Matthew [<mailto:mforister@aar.org>]  
**Sent:** Wednesday, March 15, 2017 1:46 PM  
**To:** George McGonagle <[gmcgonag@regoproducts.com](mailto:gmcgonag@regoproducts.com)>  
**Cc:** Pzedpelski, William <[BillP@aar.org](mailto:BillP@aar.org)>; Dorsey, Ken <[kdorsey@aar.org](mailto:kdorsey@aar.org)>  
**Subject:** RE: Root Cause Corrective Action Report Update

George,

Have you submitted this application yet to AAR?

Thanks,

Matthew Forister  
Director, Tank Car/Hazmat Safety  
Association of American Railroads  
[425 Third Street, SW Suite 1000](#)  
[Washington, DC 20024](#)

Phone: [202-639-2260](tel:202-639-2260)  
Email: [mforister@aar.org](mailto:mforister@aar.org)

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**From:** George McGonagle [<mailto:gmcgonag@regoproducts.com>]  
**Sent:** Friday, March 10, 2017 5:17 PM  
**To:** Forister, Matthew <[mforister@aar.org](mailto:mforister@aar.org)>  
**Cc:** Pzedpelski, William <[BillP@aar.org](mailto:BillP@aar.org)>; Dorsey, Ken <[kdorsey@aar.org](mailto:kdorsey@aar.org)>  
**Subject:** RE: Root Cause Corrective Action Report Update

Thanks Matt. I'll take care of it right away.

George McGonagle  
VP Quality Assurance  
Engineered Controls Int / RegO

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**From:** Forister, Matthew [<mailto:mforister@aar.org>]  
**Sent:** Friday, March 10, 2017 4:35 PM  
**To:** George McGonagle <[gmcgonag@regoproducts.com](mailto:gmcgonag@regoproducts.com)>  
**Cc:** Pzedpelski, William <[BillP@aar.org](mailto:BillP@aar.org)>; Dorsey, Ken <[kdorsey@aar.org](mailto:kdorsey@aar.org)>  
**Subject:** RE: Root Cause Corrective Action Report Update

George,

Please send it in with payment to Ken Dorsey. Once he receives it he will get with me to process it.

Thanks,

Matthew Forister  
Director, Tank Car/Hazmat Safety  
Association of American Railroads  
[425 Third Street, SW Suite 1000](#)  
[Washington, DC 20024](#)

Phone: [202-639-2260](tel:202-639-2260)  
Email: [mforister@aar.org](mailto:mforister@aar.org)

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**From:** George McGonagle [<mailto:gmcgonag@regoproducts.com>]  
**Sent:** Friday, March 10, 2017 12:33 PM  
**To:** Forister, Matthew <[mforister@aar.org](mailto:mforister@aar.org)>  
**Subject:** Re: Root Cause Corrective Action Report Update

Agreed, does the application go to you Matt?

Sent from my iPhone

On Mar 10, 2017, at 11:15 AM, Forister, Matthew <[mforister@aar.org](mailto:mforister@aar.org)> wrote:

George,

Probably best to send in a renewal application with the new drawing so that there is a clean distinction. Let me know if you have any questions.

Thanks,

Matthew Forister  
Director, Tank Car/Hazmat Safety  
Association of American Railroads  
[425 Third Street, SW Suite 1000](#)  
[Washington, DC 20024](#)

Phone: [202-639-2260](tel:202-639-2260)  
Email: [mforister@aar.org](mailto:mforister@aar.org)

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**From:** George McGonagle [<mailto:gmcgonag@regoproducts.com>]  
**Sent:** Friday, March 10, 2017 11:13 AM  
**To:** Forister, Matthew <[mforister@aar.org](mailto:mforister@aar.org)>  
**Cc:** Dorsey, Ken <[kdorsey@aar.org](mailto:kdorsey@aar.org)>  
**Subject:** Re: Root Cause Corrective Action Report Update

Yes, I will submit an updated drawing to Matt showing the lubricant.

Sent from my iPhone

On Mar 10, 2017, at 11:09 AM, Forister, Matthew <[mforister@aar.org](mailto:mforister@aar.org)> wrote:

George,

One of the TCC members asked the following:

Please confirm that this addition of adding the DOW Emulsion will be reflected on their approved drawing as a critical note or a line item.

Can you let me know if this is going to be put on a drawing or if it will be a part of installation instructions/special processes?

Please reply to Ken Dorsey and I on this email.

Thanks,

Matthew Forister  
Director, Tank Car/Hazmat Safety  
Association of American Railroads  
[425 Third Street, SW Suite 1000](#)  
[Washington, DC 20024](#)

Phone: [202-639-2260](tel:202-639-2260)

Email: [mforister@aar.org](mailto:mforister@aar.org)

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