

american warming
and ventilating inc

80-190-000

January 8, 1980

U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Attn: Director, Office of Inspection
and Enforcement

From: American Warming & Ventilating, Inc.
1310 Indian Wood Circle
Maumee, Ohio 43537



Subject: Notification of the Existence of a
Defect per Title 10, Chapter 1, Code
of Federal Regulations - Energy, Part
21 Reporting of Defects and Noncompliance

Reference: Notification Dated 12/07/79 From
R.L. Formella, Director Quality Assurance &
Reliability, ITT General Controls, Glendale,
California

Gentlemen:

This letter is to keep you informed of the actions
taken by AWV concerning the existence of a defect in a
certain spring in some NH91, 92, 94, 95, 96 and 98
Milliampere Actuators as reported by ITT General Controls.

Enclosed please find copies of Notifications from
AWV to its affected customers. These Notifications
identify the affected projects and tag (identification)
numbers of the affected dampers which have been shipped,

P O BOX 279
1310 INDIAN WOOD CIRCLE
MAUMEE OHIO 43537
419 893-8011

AWV MEMBER

1844 506

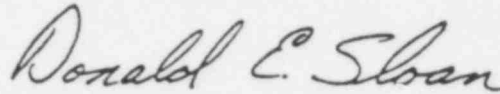
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5

U.S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
January 8, 1980
Page 2

You will be copied with all communication/
notification concerning this problem.

Very truly yours,



Donald E. Sloan
Quality Assurance Manager
American Warming & Ventilating, Inc.

cc: W.B.B.
R.L.B.
R.L.A.
J.M.T.
R.J.M.
D.S.L.

1844 507

American Warming
and Ventilating Inc

January 8, 1980

Bechtel Assoc. Professional Corp.
P.O. Box 1000
Ann Arbor, MI 48106

Attn: L.H. Curtis
Proj. Engr.

Subject: Notification of the Existence of a
Defect in some ITT Actuators per
10 CFR 21

Reference: Bechtel P.O. 7220-M-337-AC
Bechtel Job No. 7220
Consumers Power Company
Midland Plant
AWV Job No. 90235

Gentlemen:

This is to advise you that American Warming & Ventilating, Inc. has been notified by ITT General Controls, Glendale, California, under para. 21.21 of 10 CFR 21 Federal Register Vol. 42, No. 108 of the existence of a defect in a certain spring in some NH91, 92, 93, 94, 95, 96 and 98 Milliampere Hydramotor Actuators.

The nature of the defect, as advised by ITT is that one certain spring, ITT part No. 17443A, used in some NH91, 92, 93, 94, 95, 96 and 98 Milliampere Hydramotor Actuators has been discovered to be manufactured from an incorrect material. It does not possess the designed strength and will, upon actuation of a greater than 3" stroke take a permanent set. This results in a decreased force output of approximately 160# at all compressed positions. When these aforementioned actuators are subjected to an electrical input control signal of zero, the actuator output does not develop the published force when the output shaft

RECEIVED
JAN 10 1980
ANN ARBOR MI

1844 508

Bechtel Assoc. Professional Corp.
L.H. Curtis - Proj. Engr.
January 8, 1980
Page 2

is moved to it's full position.

ITT has also advised that the spring force output data is incomplete and further tests are being conducted. AWV will forward data as it is received.

The dampers shipped on the subject project affected by this defect are presented on the attached list.

If you have any questions, please feel free to call.

Very truly yours,

Donald E. Sloan

Donald E. Sloan
Quality Assurance Manager
American Warming & Ventilating, Inc.

cc: W.B.B., R.L.B., R.L.A.,
J.M.T., R.J.M., D.S.L.

N.M.M. - AWV Project Manager

Director, Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission

R. Prendergast -
Bechtel Assoc. Professional Corp.
P.O. Box 1000
Ann Arbor, MI 48106

J. Marzolf -
Fontanesi & Kann Co.
900G West Nine Mile Rd.
Oak Park, MI 48237

1844 309

american warfina
and ventilating inc

Subject: Notification of the Existence of
Defect on Some ITT Actuators per
10 CFR 21

Units Shipped On: Bechtel P.O. 7220-M-336-AC
Bechtel Job No. 7220
Consumers Power Company
Midland Plant
AWV Job No. 90235

DAMPER TAG NO.

DRAWING REF. (SCHED.)

OMO-6504A	14055
OMO-6504B	14055
OFV-6505A	14055
OFV-6505B	14055
OFV-6520A	14055
OFV-6520B	14055
OMO-6529A	14055
OMO-6507A	14055
OMO-6507B	14055
OMO-6508A	14055
OMO-6508B	14055
OMO-6509A	14055
OMO-6509B	14055
1MO-6559A	14055
1MO-6559B	14055
2MO-6559A	14055
2MO-6559B	14055
OMO-5445A	14055
OMO-5445B	14055
OMO-6529B	14055
OFV-5444A	14055
OFV-5444B	14055

SIGNED D. E. Sloan
TITLE P.A. Manager
DATE Jan. 8, 1960

1844 310

AMERICAN WARMING
and ventilating inc

January 8, 1980

Bechtel Power Corp.
San Francisco Power Division
P.O. Box 3965
San Francisco, CA 94119

Attn: R.H. Elias

Subject: Notification of the Existence of a
Defect in some ITT Actuators per
10 CFR 21

Reference: Bechtel P.O. 8031-M-113-BC
Bechtel Job 8031
Limerick Generating Station
AWV Job No. 90186

Gentlemen:

This is to advise you that American Warming & Ventilating, Inc. has been notified by ITT General Controls, Glendale, California, under para. 21.21 of 10 CFR 21 Federal Register Vol. 42, No. 108 of the existence of a defect in a certain spring in some NH91, 92, 93, 94, 95, 96 and 98 Milliamper Hydrator Actuators.

The nature of the defect, as advised by ITT is that one certain spring, ITT part No. 17443A, used in some NH91, 92, 93, 94, 95, 96 and 98 Milliamper Hydrator Actuators has been discovered to be manufactured from an incorrect material. It does not possess the designed strength and will, upon actuation of a greater than 3" stroke take a permanent set. This results in a decreased force output of approximately 160# at all compressed positions. When these aforementioned actuators are subjected to an electrical input control signal of zero, the actuator output does not develop the published force when the output shaft

1844 511

Bechtel Power Corp.
R.H. Elias
January 8, 1980
Page 2

is moved to it's full position.

ITT has also advised that the spring force output data is incomplete and further tests are being conducted. AWV will forward data as it is received.

The dampers shipped on the subject project affected by this defect are presented on the attached list.

If you have any questions, please feel free to call.

Very truly yours,

Donald E. Sloan

Donald E. Sloan
Quality Assurance Manager
American Warming & Ventilating, Inc.

cc: W.B.B., R.L.B., R.L.A.,
J.M.T., R.J.M., D.S.L.

Director, Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission

D.M. Michaels -
Project Supervisor, Field Procurement
Bechtel Power Corp.
P.O. Box A, Sanatoga Branch
Pottstown, PA 19464

M. Rubio -
G.J. Yamas Co., Inc.
1 South Linden Ave.
S. San Francisco, CA 94080

1844 312

american warming
and ventilating inc

Subject: Notification of the Existence of a
Defect in Some ITT Actuators per
10 CFR 21

Units Shipped On: Bechtel P.O. 8031-M-113-BC
Bechtel Job 8031
Limerick Generating Station
AWV Job No. 90186

DAMPER TAG NO.

DRAWING REF. (SCHED.)

HD 81-041B	13531-45
HD 81-041C	13531-45
HD 81-041D	13531-45
FDC 76-292A	13531-45
FDC 76-292B	13531-45
FDC 76-192A	13531-44
FDC 76-192B	13531-44
PDC 78-054	13531-42
PDC 78-055	13531-42
HD 78-018	13507-42
HD 78-019	13507-42
HD 78-056	13507-42
HD 76-283A	13507-45
HD 76-283B	13507-45
HD 76-183A	13507-44
HD 76-183B	13507-44
HD 76-193A	13507-44
HD 76-193B	13507-44
HD 78-002A	13507-42
HD 78-002B	13507-42
HD 78-009A	13507-42
HD 78-C09B	13507-42
HD 78-037A	13507-42
HD 78-037B	13507-42
HD 78-096A	13507-41
HD 78-096B	13507-41

SIGNED D. E. Sloan

TITLE P.A. Manager

DATE Jan. 8, 1980

AMERICAN WARMING
AND VENTILATING INC
10000 WASHINGTON BLVD
WASHINGTON DC 20007

american warming
and ventilating inc

January 8, 1980

Bechtel Power Corp.
P.O. Box 3965
San Francisco, CA 94119

Attn: Mr. Ed Poser
Job 8856

Subject: Notification of the Existence of a
Defect in some ITT Actuators per
10 CFR 21

Reference: Bechtel P.O. 8856-M-336 AC
Bechtel Job No. 8856
Susquehanna Steam Elec. Sta. Units 1 & 2
AWV Job No. 90125

Gentlemen:

This is to advise you that American Warming & Ventilating, Inc. has been notified by ITT General Controls, Glendale, California, under para. 21.21 of 10 CFR 21 Federal Register Vol. 42, No. 108 of the existence of a defect in a certain spring in some NH91, 92, 93, 94, 95, 96 and 98 Milliampere Hydramotor Actuators.

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1844 314

1844 314

Bechtel Power Corp.
Mr. Ed Poser
January 8, 1980
Page 2

is moved to it's full position.

ITT has also advised that the spring force output data is incomplete and further tests are being conducted. AWV will forward data as it is received.

The dampers shipped on the subject project affected by this defect are presented on the attached list.

If you have any questions, please feel free to call.

Very truly yours,

Donald E. Sloan

Donald E. Sloan
Quality Assurance Manager
American Warming & Ventilating, Inc.

cc: W.B.B., R.L.B., R.L.A.,
J.M.T., R.J.M., D.S.L.

D.W.L. - AWV Project Manager

Director, Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission

Jack Troy -
Bechtel Power Corp.
P.O. Box 3965
San Francisco, CA 94119

C. Turnbow -
Field Construction Manager
Bechtel Power Corp.
P.O. Box 384
Berwick, PA 18603

Mike Rubio -
G.J. Yamas Co., Inc.
1 South Linden Ave.
S. San Francisco, CA 94080

1844 315

american warming
and ventilating inc

Subject: Notification of the Existence of a
Defect in Some ITT Actuators per
10 CFR 21

Units Shipped On: Bechtel P.O. 8856-M-336 AC
Bechtel Job No. 8856
Susquehanna Steam Elec. Sta. Units 1 & 2
AWV Job No. 90125

DAMPER TAG NO.

DRAWING REF. (SCHED.)

HDM07831A	13802-1
HDM07831B	13802-1
TDM08271A3	13807-5,6,7
TDM08271B3	13807-5,6,7
TDM08271C3	13807-5,6,7
TDM08271D3	13807-5,6,7
TDM08271A2	13807-5,6,7
TDM08271B2	13807-5,6,7
TDM08271C2	13807-5,6,7
TDM08271D2	13807-5,6,7
TDM08271A1	13807-5,6,7
TDM08271B1	13807-5,6,7
TDM08271C1	13807-5,6,7
TDM08271D1	13807-5,6,7
HDM07801A	13802-1
HDM07801B	13802-1
HDM07821A	13802-1
HDM07821B	13802-1
HDM07545A	13807-1
HDM07545B	13807-1
HDM17657A	13808-1
HDM17657B	13808-1
HDM27630B	13802-1
HDM27657A	13808-5
HDM27657B	13808-5



SIGNED

D. E. Sloan

TITLE

P.A. Manager

DATE

Jan. 8, 1980

1844 316

american warming
and ventilating inc

January 8, 1980

Cincinnati Gas & Electric Company
Dayton Power & Light Co.
P.O. Box 960
Cincinnati, Ohio 45201

Attn: Mr. W.W. Schwiers
Principal Quality Assurance
and Standards Engineer

Subject: Notification of the Existence of a
Defect in some ITT Actuators per
10 CFR 21

Reference: Your P.O. #2354
Project #4130-00
Wm. H. Zimmer Nuclear Pwr. Sta. - Unit I
AWV Job No. 90083

Gentlemen:

This is to advise you that American Warming & Ventilating, Inc. has been notified by ITT General Controls, Glendale, California, under para. 21.21 of 10 CFR 21 Federal Register Vol. 42, No. 108 of the existence of a defect in a certain spring in some NH91, 92, 93, 94, 95, 96 and 98 Milliamper Hydrator Actuators.

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1844 517

Cincinnati Gas & Electric Co.
Mr. W.W. Schwiers
January 8, 1980
Page 2

is moved to it's full position.

ITT has also advised that the spring force output data is incomplete and further tests are being conducted. AWV will forward data as it is received.

The dampers shipped on the subject project affected by this defect are presented on the attached list.

If you have any questions, please feel free to call.

Very truly yours,

Donald E. Sloan

Donald E. Sloan
Quality Assurance Manager
American Warming & Ventilating, Inc.

cc: W.B.B., R.L.B., R.L.A.,
J.M.T., R.J.M., D.S.L.

Director, Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission

J. Cornwell -
Thermatrol, Inc.
P.O. Box N
Cincinnati, Ohio 45231

1844 518

american warning
and ventilating inc

Subject: Notification of the Existence of a
Defect in Some ITT Actuators per
10 CFR 21

Units Shipped On: Your P.O. #2354
Project #4130-00
Wm. H. Zimmer Nuclear Pwr. Sta. - Unit I
AWV Job No. 90083

DAMPER TAG NO.

1VQ10Y

DRAWING REF. (SCHED.)

12467

SIGNED D. E. Sloan
TITLE P.A. Manager
DATE Jan. 8, 1980

1844 319

american warming &
and ventilating inc

January 8, 1980

Ebasco Services, Inc.
19 Rector Street
New York, NY 10006

Attn: H. Parikh

Subject: Notification of the Existence of a
Defect in some ITT Actuators per
10 CFR 21

Reference: Ebasco P.O. NY-403566
Louisiana Power & Light
Waterford Unit #3
AWV Job No. 90181

Gentlemen:

This is to advise you that American Warming & Ventilating, Inc. has been notified by ITT General Controls, Glendale, California, under para. 21.21 of 10 CFR 21 Federal Register Vol. 42, No. 108 of the existence of a defect in a certain spring in some NH91, 92, 93, 94, 95, 96 and 98 Milliampere Hydramotor Actuators.

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1844 20

Ebasco Services, Inc.
H. Parikh
January 8, 1980
Page 2

is moved to it's full position.

ITT has also advised that the spring force output data is incomplete and further tests are being conducted. AWV will forward data as it is received.

The dampers shipped on the subject project affected by this defect are presented on the attached list.

If you have any questions, please feel free to call.

Very truly yours,

Donald E. Sloan

Donald E. Sloan
Quality Assurance Manager
American Warming & Ventilating, Inc.

cc: W.B.B., R.L.B., R.L.A.,
J.M.T., R.J.M., D.S.L.

T.M.A. - AWV Project Manager

Director, Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission

W.C. Oefinger -
Ebasco Services, Inc.
19 Recotr Street
New York, NY 10006

L.A. Stinson -
Ebasco Services, Inc.
P.O. Box 70
Kilona, LA 70066

D. Ober -
D. Ober Associates, Inc.
P.O. Box 2206
Union, NY 07083

1844 521

american warmings
and ventilating inc.

Subject: Notification of the Existence of a
Defect in Some ITT Actuators per
10 CFR 21

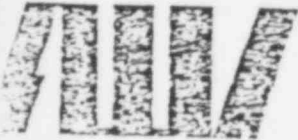
Units Shipped On: Ebasco P.O. NY-403566
Louisiana Power & Light
Waterford Unit #3
AWV Job No. 90181

DAMPER TAG NO.

D-2 (SB)

DRAWING REF. (SCHED.)

13341



SIGNED D. E. Sloan
TITLE O.A. Manager
DATE Jan. 8, 1980

american warming
and ventilating inc

January 8, 1980

D. Ober Associates, Inc.
P.O. Box 2224
1620 Route 22
Union, NJ 07083

Attn: Dave Ober

Subject: Notification of the Existence of a
Defect in some ITT Actuators per
10 CFR 21

Reference: Cust. P.O. NY-422617
Ebasco Services, Inc. Agent
Florida Power & Light
St. Lucie #2
AWV Job No. 90193



Gentlemen:

This is to advise you that American Warming & Ventilating, Inc. has been notified by ITT General Controls, Glendale, California, under para. 21.21 of 10 CFR 21 Federal Register Vol. 42, No. 108 of the existence of a defect in a certain spring in some NH91, 92, 93, 94, 95, 96 and 98 Milliampere Hydramotor Actuators.

The nature of the defect, as advised by ITT is that one certain spring, ITT part No. 17443A, used in some NH91, 92, 93, 94, 95, 96 and 98 Milliampere Hydramotor Actuators has been discovered to be manufactured from an incorrect material. It does not possess the designed strength and will, upon actuation of a greater than 3" stroke take a permanent set. This results in a decreased force output of approximately 160# at all compressed positions. When these aforementioned actuators are subjected to an electrical input control signal of zero, the actuator output does not develop the published force when the output shaft

SEARCHED
SERIALIZED
INDEXED
FILED

D. Ober Associates, Inc.
Dave Ober
January 8, 1980
Page 2

is moved to it's full position.

ITT has also advised that the spring force output data is incomplete and further tests are being conducted, AWV will forward data as it is received.

The dampers shipped on the subject project affected by this defect are presented on the attached list.

If you have any questions, please feel free to call.

Very truly yours,

Donald E. Sloan

Donald E. Sloan
Quality Assurance Manager
American Warming & Ventilating, Inc.

cc: W.B.B., R.L.B., R.L.A.,
J.M.T., R.J.M., D.S.L.

D.W.L. - AWV Project Manager

Director, Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission

M. Calbureanu -
Ebasco Services
Two Rector St.
New York, NY 10006

american warming
and ventilating inc.

Subject: Notification of the Existence of a
Defect in Some ITT Actuators per
10 CFR 21

Units Shipped On: Cust. P.O. NY-422617
Ebasco Services, Inc, Agent
Florida Power & Light
St. Lucie #2
AWV Job No. 90193

DAMPER TAG NO.

DRAWING REF. (SCHED.)

D-29	13470-2,3
D-30	13470-2,3
D-31	13470-2,3
D-32	13470-2,3
D-14	13470-2,3
D-16	13470-2,3



SIGNED D.C. Sloan
TITLE P.A. Manager
DATE Jan. 8, 1980

1844.525

AMERICAN WARMING
& VENTILATING, INC.
100 WEST 42ND STREET
NEW YORK, N.Y. 10018

ATTACHED IS A PART 21 REPORT FROM IE MAIL UNIT - ROOM 359E/W

PART 21 IDENTIFICATION NO. 80-190-000 COMPANY NAME American Warmi Ventilating

DATE OF LETTER 1/8/80 DOCKET NO. 50-329, 352, 387, 388, 358, 382, 38

DATE DISTRIBUTED 1/14/80 ORIGINAL REPORT SUPPLEMENTARY

DISTRIBUTION:

REACTOR(R)

FUEL CYCLE &

SAFEGUARDS(S)

MATERIALS(M)

NRR/DOR, DIRECTOR

AD/FFMSI

AD/SG-IE

NRR/DPM DIRECTOR

NMSS/FCMS

AD/ROI

AD/ROI (2)

REGIONS

REGIONS

AD/RCI

IE FILES

NRR/DOR, DIRECTOR

REGIONS

PDR

NMSS/SG SS-881

IE FILES (2)

LPDR

PDR

CENTRAL FILES

CENTRAL FILES-SS-396

LPDR

CENTRAL FILES (CHRON)

CENTRAL FILES(CHRON)
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TERA

IE FILES (2)

LPDR

BOB DENNIS, MPA

CENTRAL FILES 016

~~TERA~~

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BOB DENNIS, MPA

CENTRAL FILES - SS-396

BOB DENNIS, MPA

ACTION:

PRELIMINARY EVALUATION OF THE ATTACHED REPORT INDICATES LEAD RESPONSIBILITY FOR FOLLOW-UP AS SHOWN BELOW:

IE

NRR

NMSS

OTHER

RCI
ROI
SG
FFMSI

1844 326