

p21 m2101
jung



HowdenBuffalo

From: Curt Pratt/Paul Stewart
Direct Dial: 803 713-2262
Email: cpratt@howdenbuffalo.com
Return fax No: 803 713-2222

2029 W. DeKalb Street
Camden, SC 29020
Tel: 803-713-2200
Fax: 803-713-2222
www.howdenbuffalo.com

Fax Message

Corr No:

Attention: NRC Operations Center
Company:
Your reference:
Our reference:
Copy:

Date: 5/16/02
Telefax No: 301 816-5151
Page No: 8 (Includes this page)

Subject: 10CFR21 Notification of Defects and Noncompliance

Written notification to follow this notification.



2029 W. DeKalb Street
Camden, SC 29020
USA

Tel.: 803-713-2200
Fax: 803-713-2222
Web: www.howdenbuffalo.com

Date: May 16, 2002

From: Mr. Paul Stewart, General Manager
Howden Buffalo New Philadelphia, Ohio
338 South Broadway
P.O. Box 5000
New Philadelphia, Ohio 44663

To: Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Subj: 10CFR21 Reporting of Defects and Noncompliance,
Sec 21.21 Notification of failure to comply or existence of a defect and its
evaluation

Attachments: 1. Reliance Electric Report to NRC, 5/9/02, NRC Event 38909
2. Howden Buffalo Report of Potential Defect Shipped, QSF 4.13-4,
5/16/02
3. Howden Buffalo "List of Affected Equipment", 5/16/02
4. Howden Buffalo CAR CAM523, QSF 4.14-2, 5/16/02

In accordance with subject regulation and internal procedures, Howden Buffalo is submitting a report of a defect or failure to comply for basic components supplied to a nuclear facility (Attachment 2).

Seven electric drive motors supplied to Howden Buffalo as basic components by Reliance Electric, for fans manufactured by Howden Buffalo in New Philadelphia, Ohio, are identified for possible defects or failure to comply (Attachment 1). Howden Buffalo is working with Reliance to complete the evaluation and provide corrective actions to affected fan drive motors (Attachment 4). Completion date for corrective actions to affected drive motors is not known at this time.

Identification and locations of affected motors is on attached List of Affected Equipment (Attachment 3). There are no affected motors in current fan or motor production at Howden Buffalo or Reliance Electric. No equipment in transit is affected.

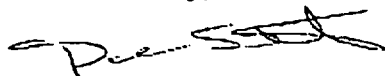
Identification and locations of affected motors is on attached List of Affected Equipment (Attachment 3). There are no affected motors in current fan or motor production at Howden Buffalo or Reliance Electric. No equipment in transit is affected.

The motor located in Vandellos Station, outside the jurisdiction of 10CFR21, shall be addressed by notification to our customer for corrective action; replacement or repair.

Questions regarding status of the evaluation or corrective actions should be addressed directly to:

Mr. Rod Furniss, Nuclear Product Manager
Howden Buffalo New Philadelphia Plant
New Philadelphia, Ohio
330-339-1111ext276

Yours truly,



Paul Stewart

cc: N Angelini HBI
T Gunvalson HBI
C Pratt HBI
R Furniss NPO

Rockwell Automation
P. O. Box 250, 4349 Avery Drive
Flowery Branch, GA 30542 USA
Tel 770.967.3381

**Rockwell
Automation**

Attachment 1

NUCLEAR NONCONFORMANCE REPORT

1. **CUSTOMER:** Howden Buffalo Inc.
338 South Broadway
New Philadelphia, Ohio 44663
2. **PURCHASE ORDER:** 1) NL774400 - QTY 1
2) NL979400 - QTY 1
3) NM187700 - QTY 1
4) NM219300 - QTY 1
5) 2827 - QTY 2
3. **PART/COMPONENT NAME:** AC MOTORS
4. **PART/COMPONENT NUMBER:** 1) 1KXV60028 - HOWDEN P/N 600287-85R
2) 1KXV60084 - HOWDEN P/N 600287-52R
3) 1KXV60125 - HOWDEN P/N 600276-3R
4) 1KXV60133 - HOWDEN P/N 600276-17R
5) 1KXV60247 - HOWDEN P/N 600276-3R
5. **QUANTITY ON HAND - 0 SHIPPED - 6**
6. **LOCATION OF ALL UNITS** 1) ?
2) DUKE ENERGY
3) DUKE ENERGY (CURRENTLY AT WESTINGHOUSE
SERVICE CTR- MADISON, PA)
4) TOLEDO EDISON
5) 1 AT DUKE ENERGY, 1 AT WESTINGHOUSE
7. **DATE NONCONFORMANCE ASCERTAINED:** May 9, 2002



Attachment 1

8. **DESCRIPTION OF DEFECT/NONCONFORMANCE:** INSUFFICIENT SLOT FILL OF MOTOR WINDINGS (1 UNIT, 1KXV60125 AT WESTINGHOUSE SERVICE CTR, SHORTED IN SLOT WHILE IN SERVICE).
9. **CORRECTIVE ACTION TAKEN:** HAVE NOTIFIED HOWDEN QUALITY ASSURANCE. THROUGH THEM WE WILL INITIATE REWIND AND OR REPLACEMENT OF UNITS AS NECESSARY. DETAILS YET TO BE DETERMINED. ALSO THE 1KXV60247 UNIT CURRENTLY AT WESTINGHOUSE WILL BE INSPECTED TO VERIFY FOR ADEQUATE SLOT FILLER MATERIAL AS A CHANGE WAS ISSUED TO ADD FILLER STICKS AND WE BELIEVE THE MOTORS ON THAT ORDER DO HAVE ADEQUATE SLOT FILL.
10. **ANY ADVICE RELATED TO DEFECT/NONCONFORMANCE:** SUDDEN CURRENT SURGES CAN CAUSE THE COIL TO MOVE INSIDE SLOT. CURRENT SURGES CAN BE CAUSED ON START-UP, DURING SPEED CHANGES, OR DURING SEVERE LOAD CHANGES. THE MOTOR MAY NEVER EXPERIENCE PROBLEMS BUT THE POSSIBILITY DOES EXIST. MOTORS RUNNING AT CONSTANT SPEED WITH NO LOAD CHANGES SHOULD ACHIEVE 40 YEAR LIFE.
11. **INDIVIDUAL COMPLETING THIS REPORT**

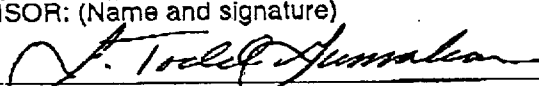
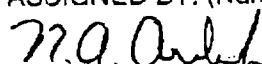
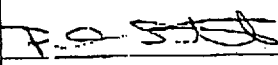
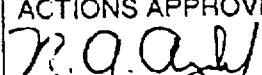
James Thigpen QA Manager, Rockwell Automation Gainesville, GA
May 9, 2002

Howden Buffalo, Inc.
 339 South Broadway
 New Philadelphia, OH 44663

Howden Buffalo, Inc.
 2029 DeKalb St.
 Camden, SC 29020

Attachment 2

**REPORT OF POTENTIAL DEFECT SHIPPED
 NUCLEAR SAFETY RELATED PRODUCT**

EMPLOYEE MAKING REPORT: Curt Pratt, Quality Systems Engineer NOT MANDATORY		DATE REPORTED: 5/9/02	TIME REPORTED: 4:15 PM
SUPERVISOR: (Name and signature)  Todd Gunvalson, Quality Manager			
EQUIPMENT/COMPONENT INFORMATION:			
ITEM NUMBER: See Attached "List of Affected Equipment"	ITEM DESCRIPTION: See attached "List of Affected Equipment"		
SERIAL NUMBER: See attached "list of Affected Equipment"	SALES ORDER: See attached "List of Affected Equipment"		
NATURE OF DEFECT: "Insufficient slot fill of motor windings (1 unit, 1KXV60125 at Westinghouse Service Ctr, shorted in slot while in service). See attached "Nuclear Nonconformance Report" from Rockwell Automation (Reliance Electric). Defect reported to NRC 5/9/02 by Reliance (NRC Event No. 38909).			
FORWARD TO DEPARTMENT MANAGER			
NOTIFY VP COMMERCIAL OPERATIONS AND QUALITY MANAGER			
ASSIGNED INVESTIGATION COMMITTEE: T Gunvalson, Quality Manager (HBI) C Pratt, Quality Systems Engineer (HBI) R Furniss, Nuclear Product, New Philadelphia, Ohio Plant (NPO)			
ASSIGNED BY: (Name and signature)  N Angelini, VP Sales & Marketing		DATE: 5/16/02	
SUMMARY EVALUATION: Evaluation by Reliance Electric (motor supplier): "Sudden current surges can cause the coil to move inside slot. Current surges can be caused on start-up, during speed changes, or during severe load changes. The motor may never experience problems but the possibility does exist. Motors running at constant speed with no load should achieve 40 year life".			
ATTACH ALL ORIGINAL BACKGROUND RECORDS			
NOTIFICATION REQUIRED - Refer to 10CFR Part 21 for Report Outline			
NRC: YES		CUSTOMERS: YES	
NOTIFICATIONS MADE BY: (Name and signature)  P Stewart, General Manager NPO		DATE OF NOTIFICATION: NRC 5/16/02	
NRC OPERATIONS CENTER FAX: 301-816-5151 PHONE: 301-816-5100		DOCUMENT CONTROL DESK U. S. NUCLEAR REGULATORY COMMISSION WASHINGTON, DC 20555	
ACTIONS APPROVED BY: (Name and signature)  N Angelini, VP Sales & Marketing		DATE:	

Attachment 3
LIST OF AFFECTED EQUIPMENT

	1	2	3	4	5	6	7
HBI PO #	NL7744	NL9794	NM1877	NM2193	2827	2827	1898
Sold to:	Spain	CornEd	Duke	First Energy, Toledo Edison	Duke	Duke	First Energy, Toledo Edison
Station	Vandellos	Braidwood	Oconee	Davis Besse	Oconee	Oconee	Davis Besse
NPX #	NPX68917	NPX68203	NPX58761	NPX62423	NPX58761	NPX58761	NPX62423
Fan S/N	GF21943	GF21631-46	GF13705	GF16182	GF13705	GF13705	GF16182
Sales Order #	NPN31928	NPN32790	NPN33586	NPN33748	560085	560085	560055
Motor P/N	600287-85R	600287-52R	600276-3R	600276-17R	600276-3R	600276-3R	600276-17R
Motor S/N	1KXV60028	1KXV60084	1KXV60125-T1	1KXV60133	1KXV60247-T1	1KXV60247-T2	1KXV60228-T1
Customer PO#	6032497	48H310	ON26432	S 086669 D98	ON34982	ON34982	7D13315
Shipped On:	09/11/98	02/26/99	04/30/99	04/28/99	03/30/00	03/30/00	03/21/00

Updated 5/16/02
 Curt Pratt



Attachment 4

**CORRECTIVE ACTION REQUEST
 SUPPLIER**

SECTION ONE		TO BE COMPLETED BY HOWDEN BUFFALO	
¹ CAR NUMBER: CAM523		² DATE ISSUED: 5/16/02	
³ ISSUED TO: Rockwell Automation - Reliance		⁴ SUPPLIER NUMBER: 47400	⁵ P.O. NUMBER: Various
⁶ ITEM NUMBER: Various	⁷ ITEM DESCRIPTION: Safety Related Electric Motors		⁸ NCR NUMBER: N/A
⁹ PROBLEM: Motors provided by GRR have been reported as potentially having been delivered to Howden Buffalo with defects - specifically insufficient slot fill which has a further potential of causing any motors with such a condition to fall in use. Ref: RGG report to NRC, event no. 38909. Problem has been reported on motors manufactured at RGG with a "recessed slot" design. Determination needed as to scope of problem and applicability to other motor designs, or motors provided by other Reliance facilities.			
¹⁰ ISSUED BY: Todd Gunvalson SIGN AND PRINT NAME		¹¹ REPLY REQUIRED BY: 5/24/2002	
SECTION TWO		TO BE COMPLETED BY SUPPLIER (Please see page 2)	
¹² ROOT CAUSE: ATTACH ADDITIONAL PAGES IF NECESSARY			
¹³ SOLUTION: ATTACH ADDITIONAL PAGES IF NECESSARY			
¹⁴ RESPONSE BY: SIGN AND PRINT NAME		¹⁵ REPLY DATE:	
SECTION THREE		TO BE COMPLETED BY HOWDEN BUFFALO	
¹⁶ RESPONSE ACCEPTED BY QA: SIGN AND PRINT NAME		¹⁷ ACCEPTANCE DATE:	
¹⁸ METHOD OF VERIFICATION OF EFFECTIVENESS:			
¹⁹ VERIFIED BY: SIGN AND PRINT NAME		²⁰ DATE VERIFIED:	
FORWARD COPY OF COMPLETED FORM TO PURCHASING/QA			