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MORRISON-KNUDSEN COMPANY, INC.

L-QTS-85-012

EXECUTIVE OFFICE
MORRISON-KNUDSEN PLAZA
P.O. BOX 7808 / BOISE, IDAHO 83729 / U.S.A.
PHONE: (208) 386-5000 / TELEX: 368439

July 17, 1985

85-546

Edward Trottier
USNRC
1717 "H" Street
Washington, D. C. 20555

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MAKE
SURE PD NEW
Prolec*

Dear Mr. Trottier:

Attached please find supporting documentation concerning a potential reportable 10CFR Part 21 condition discussed this date by Messrs. James Stone of USNRC and Stephen Schuermann of Morrison-Knudsen. The telephone conversation between Messrs. Stone and Schuermann occurred within 24 hours of our receiving information concerning this potential reportable condition from our diesel generator manufacturing facility in Rocky Mount, North Carolina.

We will be forwarding further information as it becomes available. You may contact me at 208/386-5793 if you desire any further information concerning this subject.

Very truly yours,

*UPB
info EGCB*

Murlin D. Grayson
Murlin D. Grayson
Quality & Technical Support Manager
Power Group

*note to
STONE:
Trottier
was following.*

MDG/SFS/bkw
1295q
Attachment

cc: D. Baden (w/attachment)
H. Falter (Rocky Mount w/attachment)
F. Jones (Rocky Mount w/attachment)
File

IE19

CREATORS OF ELECTRICAL
POWER SUPPLY SYSTEMS



POWER SYSTEMS
A MORRISON-KNUDSEN DIVISION

101 GELD ROAD / POST OFFICE BOX 1828
ROCKY MOUNT, NORTH CAROLINA 27801
PHONE: (919) 877-2720 / TWX: (810) 829-0725
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JUL 16 2:00 PM '85

SENT/REC. BY TELECOPY	
SENT:	_____
REC'D:	_____
DATE:	_____
TIME:	_____

RECEIVED
JUL 16 1985

TELECOPY

DATE: July 17, 1985

COMPANY: Morrison-Knudsen Company, Inc.

ADDRESS: _____

CITY & STATE: Boise, Idaho

ATTENTION: Mr. Murlin D. Grayson (Quality Dept.)

REFERENCE: POSSIBLE 10CFR21

TELECOPY NO.: _____

POWER/QTS

CALL WED.
1 ST TANG

MESSAGE

SUBJECT: Clarification of Designation of RH or LH Air Start Motors

COMPONENT: Air Start Motors for General Motors
EMD Model 645E4 Diesels used for Emergency Power

Attached are results of a 10CFR21 Committee Meeting held at M-K/PSD concerning the above subject.

FROM: Harry W. Falter, Principal Engineer
POWER SYSTEMS
A MORRISON-KNUDSEN DIVISION

TRANSMITTED HEREWITH ARE (3) PAGES, INCLUDING THE COVER SHEET.

IF YOU DO NOT RECEIVE ALL PAGES LISTED, PLEASE CALL (919)-877-2720.

MORRISON-KNUDSEN COMPANY, INC.
POWER SYSTEMS DIVISION

10CFR21-0026

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10CFR21 COMMITTEE MEETING HELD JULY 16, 1985

Harry W. Falter, Principal Engineer

Harry W. Falter

Jim Rutherford, Manager-Administration

Jim Rutherford

Marc. Cake, Manager-Parts/Service

Marc. P. Cake

Ed Martin, Manager-Contracts

Ed Martin

Mike King, Manager-Purchasing

Mike King

Tom Iannuzzi, Manager-Engineering

Tom Iannuzzi

Vann Mitchell, Manager-Quality Assurance

Vann Mitchell

SUBJECT: Clarification of Designation of RH or LH Air Start Motors.

COMPONENT: Air Start Motors for General Motors
EMD Model 645E Diesels used for Emergency Power

FUNCTION: The air start motors are used to crank in order to start the diesel engine.

DETERMINATION: (For Detail - Refer to "EVENT")

A review of the circumstances by the committee indicates that there could be some confusion as to which air start motor rotation belongs to which engine rotation. It was recommended that the following clarifying information be disseminated to owners of Generator Motors EMD Model 645E4 diesel engines.

Engine Rotation	EMD Part No.	P/N on Ingersoll-Rand Co. Nameplate
Right Hand (clockwise viewing flywheel)	8377435 (or) Utex P/N 8421947	150BMPD89LH50
Left Hand (counterclockwise viewing flywheel)	8367694 (or) Utex P/N 8421946	150BMPD89RH46

MORRISON-KNUDSEN COMPANY, INC.
POWER SYSTEMS DIVISION

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10CFR21 COMMITTEE MEETING HELD JULY 16, 1985EVENT:

During a review of part numbers, the M-K/PSD procurement personnel discovered that for a group of air start motors shipped as spares, the nameplate designation on the air start motors relative to its rotation was misinterpreted. The Parts Manager called for a 10CFR21 meeting for 7/16/85 to evaluate reportability.

The air start motors bear an Ingersoll-Rand nameplate with P/N 150BMPD89LH50 or P/N 150BMPD89RH46. The (LH) and (RH) respectively indicate Left hand rotation and right hand rotation. The diesels can also be left hand rotation (c'lockwise viewing flywheel end) or right hand rotation.

The LH and RH designations on the air start motors were misinterpreted to refer to engine rotation. However, a left hand rotation starting motor is required for a right hand rotation engine and vice versa.

A review of our records indicates that the air start motors were furnished as spare parts beginning with March, 1985. A total of eighteen were shipped with the improper designated rotation.

Fifteen air start motors were sent to Southern California Edison (San Onofre), one unit to Gulf States Utilities (Riverbend), and two units to Philippine Power (in the Philippines).

M-K/PSD procurement have verified that all the above air start motors are stocked as spares and none are installed on engines.

CORRECTIVE ACTION:

1. All recipients of the improperly designated air motors have been advised. M-K/PSD shall exchange all motors; or in the case where the owner decides to retain the motors, shall obtain documentation that the rotation designation has been corrected.
2. A Service Notice shall be sent to all Nuclear Plants with EMD engines provided by M-K/PSD.
3. M-K/PSD shall conduct training to prevent reoccurrence.