

AUG 26 1977

Docket No. 50-346

Toledo Edison Company
ATTN: Mr. Lowell E. Roe
Vice President, Facilities
Development
Edison Plaza
300 Madison Avenue
Toledo, Ohio 43652

Gentlemen:

SUBJECT: ISSUANCE OF AMENDMENT NO. 6 TO FACILITY OPERATING LICENSE
NO. NPF-3 FOR DAVIS-BESSE NUCLEAR POWER STATION, UNIT NO. 1

We have been informed by the Office of Inspection and Enforcement that they find your installation of the modified diesel fuel oil storage and transfer system is in accordance with the stipulations of Paragraph 2.C.(3)(b) of Facility Operating License No. NPS-3.

Therefore, the Nuclear Regulatory Commission has issued the enclosed Amendment No. 6 to Facility Operating License No. NPF-3 which is effective as of the date of issuance, and revises the Facility Operating License by deleting the licensing condition stated in paragraph 2.C.(3)(b).

Amendment No. 6 also revises the Technical Specifications, Appendix A, by changing Technical Specification 3.8.1.1.b.2, page 3/4 8-1 to specify a separate fuel storage system containing a minimum volume of 32,000 gallons of fuel for each diesel generator.

We have determined that Amendment No. 6 does not authorize a change in effluent types or total amounts nor an increase in power level and will not result in any significant environmental impact. Having made this determination, we have further concluded that the amendment involves an action which is insignificant from the standpoint of environmental impact and, pursuant to 10 CFR Section 51.5(d)(4), that an environmental impact statement, or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

Lowell E. Roe
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DATE >						

Copies of the Federal Register Notice of Issuance of Amendment No. 6 and the Safety Evaluation Supporting Amendment No. 6 to License No. NPF-3 are also enclosed.

Sincerely,

Original Signed by

John F. Stolz, Chief
Light Water Reactors Branch No. 1
Division of Project Management

Enclosures:

1. Amendment No. 6 to License No. NPF-3
2. Federal Register Notice
3. Safety Evaluation Supporting Amendment No. 6 to License No. NPF-3

cc w/enclosures:

Mr. Donald H. Hauser, Esq.
The Cleveland Electric Illuminating Company
P. O. Box 5000
Cleveland, Ohio 44101

Gerald Charnoff, Esq.
Shaw, Pittman, Potts and Trowbridge
1800 M Street, N. W.
Washington, D. C. 20036

Leslie Henry, Esq.
Fuller, Seney, Henry and Hodge
300 Madison Avenue
Toledo, Ohio 43604

Mr. Harry R. Johnson
Ottawa County Courthouse
Port Clinton, Ohio 43452

Ohio Department of Health
ATTN: Director of Health
450 East Town Street
Columbus, Ohio 43216

Mr. Bruce Blanchard
Environmental Projects Review
Department of the Interior
Room 5321
18th and C Streets, N. W.
Washington, D. C. 20240

Harold Kahn, Staff Scientist
Power Siting Commission
361 East Broad Street
Columbus, Ohio 43216

Atomic Energy Control Board
P. O. Box 1046
Ottawa Ontario, Canada

OFFICE →	LWR 1	LWR 1	OELD <i>WCB</i>	LWR 1		
SURNAME →	<i>Hyton/red</i>	LEng <i>JOE</i>	<i>SA TROBY</i>	JStolz <i>JS</i>		
DATE →	8/22/77	8/22/77	8/24/77	8/25/77		

THE TOLEDO EDISON COMPANY

AND

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

DOCKET NO. 50-346

DAVIS-BESSE NUCLEAR POWER STATION, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 6
License No. NPF-3

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - B. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - C. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - D. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, the license is amended by deleting the license condition stated in paragraph 2.C.(3)(b) of Facility Operating License No. NPF-3, and by changing the Technical Specifications as indicated in the attachment to this license amendment. Paragraph 2.C.(2) of Facility Operating License No. NPF-3 is hereby amended to read as follows:

2.C(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 6 are hereby incorporated in the license. Toledo Edison Company

shall operate the facility in accordance with the Technical Specifications.

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3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Original Signed by

John F. Stolz, Chief
Light Water Reactors Branch No. 1
Division of Project Management

Attachment:
Changes to the Technical
Specifications

Date of Issuance: AUG 26 1977

OFFICE >	LWR 1	LWR 1	OELD <i>ST</i>	LWR 1		
SURNAME >	<i>EH</i> ton/red	LEng <i>BE</i>	<i>S.A. Tubey</i>	JStolz <i>ST</i>		
DATE >	8/22/77	8/22/77	8/23/77	8/26/77		



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

THE TOLEDO EDISON COMPANY

AND

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

DOCKET NO. 50-346

DAVIS-BESSE NUCLEAR POWER STATION, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 6
License No. NPF-3

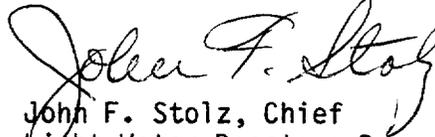
1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - B. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - C. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - D. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, the license is amended by deleting the license condition stated in paragraph 2.C.(3)(b) of Facility Operating License No. NPF-3, and by changing the Technical Specifications as indicated in the attachment to this license amendment. Paragraph 2.C.(2) of Facility Operating License No. NPF-3 is hereby amended to read as follows:

2.C(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 6 are hereby incorporated in the license. Toledo Edison Company shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



John F. Stolz, Chief
Light Water Reactors Branch No. 1
Division of Project Management

Attachment:
Changes to the Technical
Specifications

Date of Issuance: **AUG 26 1977**

ATTACHMENT TO LICENSE AMENDMENT NO. 6

FACILITY OPERATING LICENSE NO. NPF-3

DOCKET NO. 50-346

Replace the following pages of the Appendix "A" Technical Specifications with the enclosed pages. The revised pages are identified by Amendment number and contains vertical lines indicating the area of change. The corresponding overleaf pages are also provided to maintain document completeness.

Page

3/4 8-1

3/4.8 ELECTRICAL POWER SYSTEMS

3/4.8.1 A.C. SOURCES

OPERATING

LIMITING CONDITION FOR OPERATION

3.8.1.1 As a minimum, the following A.C. electrical power sources shall be OPERABLE:

- a. Two independent circuits between the offsite transmission network and the onsite Class 1E distribution system, each consisting of;
 1. One OPERABLE 345 KV transmission line,
 2. One OPERABLE 345-13.8 KV startup transformer, and
 3. One OPERABLE 13.8 KV bus, and
- b. Two separate and independent diesel generators each with:
 1. A separate day fuel tank containing a minimum volume of 4000 gallons of fuel,
 2. A separate fuel storage system containing a minimum volume of 32,000 gallons of fuel, and
 3. A separate fuel transfer pump.

APPLICABILITY: MODES 1, 2, 3 and 4.

ACTION:

- a. With either an offsite circuit or diesel generator of the above required A.C. electrical power sources inoperable, demonstrate the OPERABILITY of the remaining A.C. sources by performing Surveillance Requirements 4.8.1.1.1.a and 4.8.1.1.2.a.4 within one hour and at least once per 8 hours thereafter; restore at least two offsite circuits and two diesel generators to OPERABLE status within 72 hours or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.
- b. With one offsite circuit and one diesel generator of the above required A.C. electrical power sources inoperable, demonstrate the OPERABILITY of the remaining A.C. sources by performing Surveillance Requirements 4.8.1.1.1.a and 4.8.1.1.2.a.4 within

ELECTRICAL POWER SYSTEMS

ACTION (Continued)

one hour and at least once per 8 hours thereafter; restore at least one of the inoperable sources to OPERABLE status within 12 hours or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours. Restore at least two offsite circuits and two diesel generators to OPERABLE status within 72 hours from the time of initial loss or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.

- c. With two of the above required offsite A.C. circuits inoperable, demonstrate the OPERABILITY of two diesel generators by performing Surveillance Requirement 4.8.1.1.2.a.4 within one hour and at least once per 8 hours thereafter, unless the diesel generators are already operating; restore at least one of the inoperable offsite sources to OPERABLE status within 24 hours or be in at least HOT STANDBY within the next 6 hours. With only one offsite source restored, restore at least two offsite circuits to OPERABLE status within 72 hours from time of initial loss or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.
- d. With two of the above required diesel generators inoperable, demonstrate the OPERABILITY of two offsite A.C. circuits by performing Surveillance Requirement 4.8.1.1.1.a within one hour and at least once per 8 hours thereafter; restore at least one of the inoperable diesel generators to OPERABLE status within 2 hours or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours. Restore at least two diesel generators to OPERABLE status within 72 hours from time of initial loss or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.

SURVEILLANCE REQUIREMENTS

4.8.1.1.1 Each of the above required independent circuits between the offsite transmission network and the onsite Class 1E distribution system shall be:

- a. Determined OPERABLE at least once per 7 days by verifying correct breaker alignments and indicated power availability, and
- b. Demonstrated OPERABLE at least once per 18 months during shutdown by transferring (manually and automatically) unit power supply to each of the 345 KV transmission lines.

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NO. 50-346

THE TOLEDO EDISON COMPANY

AND

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

DAVIS-BESSE NUCLEAR POWER STATION, UNIT NO. 1

NOTICE OF ISSUANCE OF AMENDMENT TO FACILITY

OPERATING LICENSE

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 6 to the Facility Operating License No. NPF-3, issued to the Toledo Edison Company and the Cleveland Electric Illuminating Company, which revised Technical Specifications for operation of the Davis-Besse Nuclear Power Station, Unit No. 1 (the facility) located in Ottawa County, Ohio. The amendment is effective as of its date of issuance.

This amendment removes a condition which stipulated the amount of time allowed from date of issuance of the operating license for completing the installation of the modified emergency diesel fuel oil storage and transfer system. This license is further amended by making the appropriate change to the Technical Specifications on Page 3/4 8-1.

The amendment complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's rules and regulations in 10 CFR Chapter I, which are set forth in the license amendment. Prior public notice of this amendment was not required since the amendment does not involve a

significant hazards consideration.

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The Commission has determined that the issuance of this amendment will not result in any significant environmental impact and that pursuant to 10 CFR §51.5(d)(4) an environmental impact appraisal need not be prepared in connection with issuance of this amendment.

For further details with respect to this action, see (1) Amendment No. 6 to License No. NPF-3, (2) the Commission's related Safety Evaluation supporting Amendment No. 6 to License No. NPF-3. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C. and at the Ida Rupp Public Library, 310 Madison Street, Port Clinton, Ohio 43452. A copy of items (1) and (2) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Project Management.

Dated at Bethesda, Maryland, this 26 day of Aug. 1977.

FOR THE NUCLEAR REGULATORY COMMISSION

Original Signed by

John Stolz, Chief
Light Water Reactors Branch No. 1
Division of Project Management

OFFICE →	LWR 1	LWR 1	OELD <i>ST</i>	LWR 1		
SURNAME →	<i>EH</i> <i>Phon/red</i>	<i>JE</i>	<i>SA Treby</i>	<i>JStolz</i>		
DATE →	<i>8/22/77</i>	<i>8/22/77</i>	<i>8/23/77</i>	<i>8/26/77</i>		

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 6 TO LICENSE NO. NPF-3

TOLEDO EDISON COMPANY

AND

CLEVELAND ELECTRIC ILLUMINATING COMPANY

DAVIS-BESSE NUCLEAR POWER STATION, UNIT 1

DOCKET NO. 50-346

INTRODUCTION

By letter, dated July 29, 1977, the Toledo Edison Company notified us that modifications had been completed in the emergency diesel generator fuel oil storage and transfer system as stipulated in Paragraph 2.C.(3)(b) of Facility Operating License No. NPF-3. Also, the Toledo Edison Company requested a change in the Technical Specifications, Appendix A, to said license to allow operation of the completed installation of the modified redundant emergency diesel generator fuel oil storage tanks and transfer system in lieu of the common fuel oil storage system presently in operation for Davis Besse, Unit 1.

Paragraph 2.C.(3)(b) of Facility Operating License No. NPF-3, issued on April 22, 1977 stated as a condition to said license that:

"Within four (4) months of the date of issuance of this license, Toledo Edison Company shall complete modifications in the diesel fuel oil storage and transfer system. The modified design shall provide each diesel generator with a 40,000 gallon seismic Category I fuel oil storage tank which shall be installed and protected above ground against tornado forces and tornado missiles. Each fuel oil storage tank shall be provided with its own seismic Category I transfer pump, piping and valves to serve its respective diesel generator day tank."

DISCUSSION

During our review and evaluation of the Final Safety Analysis Report for Davis Besse, Unit 1, we determined that the design of the emergency diesel generator fuel oil storage and transfer system was not acceptable.

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On March 1, 1976, the Toledo Edison Company submitted Amendment No. 33 consisting of Revision No. 17 to the Final Safety Analysis Report. Revision No. 17 included modifications in the diesel fuel oil storage and transfer system in order to meet our requirements for redundance, seismic design, and tornado missile protection.

By letter, dated March 8, 1976, the Toledo Edison Company requested permission to temporarily operate the diesel generator fuel oil storage and transfer system with the then presently designed and installed 100,000 gallon common diesel fuel oil storage tank and transfer system until the modified system as specified in Revision No. 17, could be installed and completed. The Toledo Edison Company stated that the modified system could not be completed before June 1977.

EVALUATION

We evaluated the Toledo Edison Company's proposed modifications for the diesel fuel oil storage and transfer system and found the modified system to be acceptable. The bases for our conclusion on the acceptability of the modified system are provided in Section 8.3 and Section 9.6.3 of our Safety Evaluation Report.

Also, we determined that until the modified system was installed and completed the then presently installed common diesel fuel oil storage and transfer system could be used for the short period of time from the then scheduled fuel loading date of February 1977 to the then scheduled completion of the modified system in June 1977. Our basis for allowing operation of the common fuel oil storage and transfer system was provided in Section 9.6.3 of our Safety Evaluation Report.

Prior to issuance of the Davis Besse, Unit 1 Facility Operating License, the Toledo Edison Company stated that completion of the modified system would not be completed before mid-July 1977 due to procurement and construction delays. We then determined that the period of time allowable for plant operation with the common fuel oil storage and transfer system should be four months from the date of issuance of the facility operating license.

On July 29, 1977, we informed the Office of Inspection and Enforcement that the Toledo Edison Company had completed the modified emergency diesel fuel oil storage and transfer system. And, we requested that they verify that the modified system had been installed to the conditions specified in Paragraph 2.C.(3)(b).

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SURNAME ➤						
DATE ➤						

By memorandum dated August 19, 1977, the Office of Inspection and Enforcement informed us that the modified emergency diesel fuel oil storage and transfer system had been installed and was in full accordance with the stipulations of Paragraph 2.C.(3)(b).

Based upon our conclusions as stated in our Safety Evaluation Report and upon installation of the modified emergency diesel generator fuel oil storage and transfer system which has been verified by the Office of Inspection and Enforcement to be fully in accordance with the stipulations of Paragraph 2.C.(3)(b), we find that the condition stipulated in Paragraph 2.C.(3)(b) is no longer necessary. Therefore, we conclude that Facility Operating License No. NPF-3 can be amended by removing the license condition as stated in Paragraph 2.C.(3)(b).

At the time Facility Operating License No. NPF-3 was issued on April 22, 1977, Technical Specification 3.8.1.1.b.2 required as a limiting condition of operation for Modes 1, 2, 3, and 4 that the two separate and independent diesel generators have a common fuel storage tank containing a minimum value of 64,000 gallons of fuel. The minimum storage allowed (64,000 gallons) was to assure that a seven day fuel oil supply was available to supply each emergency diesel generator.

The installation of the modified fuel oil storage and transfer system now provides for separate 40,000 gallons seismic Category I and tornado protected fuel oil storage tanks. Therefore, the Toledo Edison Company has requested that Technical Specification 3.8.1.1.b.2 be revised to reflect the installation of these redundant storage tanks. The Toledo Edison Company has requested that Technical Specification 3.8.1.1.b.2 be changed to specify that as a limiting condition of operation for Modes 1, 2, 3, and 4 that the two separate and independent diesel generators have a separate fuel storage system containing a minimum volume of 32,000 gallons of fuel.

As discussed above, we required that the diesel generator fuel oil storage and transfer system be modified to the stipulations of Paragraph 2.C.(3)(b) of Facility Operating License No. NPF-3. In as much as the modified system now fully complies with the conditions of Paragraph 2.C.(3)(b) and since the 40,000 gallon redundant storage tanks will each have a seven day fuel oil supply available (32,000 gallons) for operation in Modes 1, 2, 3, and 4 we find the requested change to Technical Specification 3.8.1.1.b.2 to be acceptable.

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OFFICE →	AP-31	AP-31	AP-31			
SURNAME →	W. H. KIRK	L. E. TOLSON	J. S. BOLDEN			
DATE →	01/177	01/177	01/177			

ENVIRONMENTAL CONSIDERATION

We have determined that the amendment does not authorize a change in effluent types or total amounts nor an increase in power level and will not result in any significant environmental impact. Having made this determination, we have further concluded that the amendment involves an action which is insignificant from the standpoint of environmental impact and, pursuant to 10 CFR §51.5(a)(4), that an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

CONCLUSION

We have concluded, based on the considerations discussed above, that: (1) because the amendment does not involve a significant increase in the probability or consequences of accidents previously considered or a significant decrease in any safety margin, it does not involve a significant hazards consideration, (2) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (3) such activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public. Also, we reaffirm our conclusions as otherwise stated in our Safety Evaluation Report.

Dated: AUG 26 1977

OFFICE	LWR-#1	LWR-#1	LWR-#1		
SURNAME	L. E. Temple	E. Hyton:k1j	J. Stutz		
DATE	8/22/77	8/ /77	8/26/77		



UNITED STATES
 NUCLEAR REGULATORY COMMISSION
 WASHINGTON, D.C. 20555
September 6, 1977

DISTRIBUTION:
 Docket Files ✓
 LWR #1 Rdg
 EGHylton (2)
 LEngle

Docket No. 50-346

Docketing and Service Section
 Office of the Secretary of the Commission

SUBJECT: **NOTICE OF ISSUANCE OF AMENDMENT TO FACILITY OPERATING LICENSE NO. NPF-3 ISSUED FOR DAVIS-BESSE NUCLEAR POWER STATION, UNIT NO. 1**

Two signed originals of the Federal Register Notice identified below are enclosed for your transmittal to the Office of the Federal Register for publication. Additional conformed copies (15) of the Notice are enclosed for your use.

- Notice of Receipt of Application for Construction Permit(s) and Operating License(s).
- Notice of Receipt of Partial Application for Construction Permit(s) and Facility License(s): Time for Submission of Views on Antitrust Matters.
- Notice of Availability of Applicant's Environmental Report.
- Notice of Proposed Issuance of Amendment to Facility Operating License.
- Notice of Receipt of Application for Facility License(s); Notice of Availability of Applicant's Environmental Report; and Notice of Consideration of Issuance of Facility License(s) and Notice of Opportunity for Hearing.
- Notice of Availability of NRC Draft/Final Environmental Statement.
- Notice of Limited Work Authorization.
- Notice of Availability of Safety Evaluation Report.
- Notice of Issuance of Construction Permit(s).
- Notice of Issuance of Facility Operating License ~~and~~ Amendment(s).
- Other: _____

P.S. An extra copy of the complete package is enclosed for the NRC PDR.

Enclosure:
 As Stated

Office of Nuclear Reactor Regulation

OFFICE →	LWR #1					
SURNAME →	EGHylton					
DATE →	9/6/77					

DISTRIBUTION FOR DAVIS-BESSE, UNIT NO. 1 AMENDMENT NO. 6 TO OPERATING
LICENSE NO. NPF-3 DATED **AUG 26 1977**

Docket File ←
NRC PDR
Local PDR
LWR #1 Reading
GFess, OELD
RCDeYoung
DBVassallo
JFStolz
LEngle
FJWilliams
HSmith
BScott
IE (5)
NDube
BJones (4)
WMiller, ADM
ACRS (16)
VAMoore, DSE
HDenton, DSE
RHVollmer, DSE
MLErnst, DSE
WPGammill, DSE
RHeineman, SS
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DFRoss, SS
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DSkovholt
AToalston, AIG
IDinitz, AIG
EHughes
PCota, EP
Marie Slater, EP
HBristow, NMSS
SDuncan, NMSS
VStello
KGoller
JMcGough
DEisenhut
WPasciak (Appendix B only)
EGHylton (5)
PWagner, OR
CParrish, OR
GLear

bcc: JRBuchanan, NSIC
TBAbernathy, TIC
ARosenthal, ASLAB
JYore, ASLBP