

BWR OWNERS' GROUP

CHARTER

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BWR OWNERS' GROUP CHARTER

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BOILING WATER REACTOR OWNERS' GROUP (BWROG) CHARTER

I. OVERVIEW

- A. A group of utilities currently designing, constructing, or operating a nuclear generating plant utilizing a BWR.
- B. Each full member utility provides one representative who is part of the Executive Committee. Each utility provides one representative who is part of the General Committee.
- C. The BWROG Executive Sessions, General Meetings and Technical Committee Meetings are the principal forums in which the BWROG conducts its business.
- D. Specialized "technical committees" are task-specific and are directed by utility Committee Chairs.
- E. International Membership is available to non-domestic (non-US) BWRs. Domestic (US) utilities with operating BWRs are required to participate as Full Members.

II. MISSION

The mission of the Boiling Water Reactor Owners' Group (BWROG) is to provide a forum, in the spirit of partnership with GE Vernova Hitachi Nuclear Energy Americas LLC (GVH), which allows its member utilities to maintain and improve plant safety, achieve higher plant reliability, minimize and share costs, facilitate regulatory interaction, and effectively apply limited technical resources for mutual resolution of issues applicable to two or more members.

III. APPLICABILITY

This Charter governs all aspects and activities of the BWROG and applies to all Members (-Full, International, and Conditional). Additional governing criteria for International and Conditional Members can be found in the appropriate appendices.

IV. OBJECTIVES

- A. Provide a forum for work, which will maintain and improve plant safety, achieve higher plant reliability, and reduce costs.
- B. Allow the BWR Owners to control, minimize, and share costs and effectively apply limited technical resources for resolution of issues generically applicable to the BWR.
- C. Provide a forum for joint discussion and/or resolution of common issues.

- D. Provide a forum for joint discussions and communication among members on operating experience.
- E. Provide a vehicle for communicating BWROG interests to industry organizations. (e.g. NEI, INPO, EPRI, etc.)
- F. Monitor industry and regulatory activities and act where appropriate to assure BWR plant safety is accurately represented and evaluated.
- G. Review and evaluate commitments made by industry management on generic issues.

V. MEMBERSHIP REQUIREMENT

If a utility meets the criteria for BWROG membership (i.e., owns or operates an operating BWR plant or one under construction), then said utility must be a BWROG member to attend meetings, conferences, workshops, purchase BWROG products, etc. Domestic US BWROG members are considered Full Members or voting member utilities. Non-domestic (non-US) members with an operating BWR are considered International Member utilities. Conditional members are those utilities that do not own or operate an operating BWR but have one under construction. Conditional members are also considered non-voting members.

Only non-members who do not meet the BWROG membership criteria may be allowed to purchase BWROG products, or pay a fee to attend meetings, conferences, workshops, etc. The BWROG Chair is responsible for coordinating, recommending and obtaining the approvals for these actions.

The only exception to these attendance requirements with regard to non-members and eligible non-members is for the purpose of marketing BWROG capabilities and presentations of product benefits in an effort to recruit new membership. Other exceptions are to be approved by majority vote by the Executive Committee. No paper or electronic copies of BWROG products are to be released without the appropriate approval.

VI. ORGANIZATION

A. Executive Committee (Voting Member Utility)

1. Membership

- a. The Executive Committee consists of one executive (i.e. elected company officer or general manager with nuclear responsibility) of each voting member utility company, or their designated service organization, and GVH Executive or his designee, and shall participate as a voting member.
- b. The Executive Committee will also invite two International Members, one from Europe and one from Asia, to participate as voting members of the Executive Committee. If the Americas region accumulates at least two International

Members, then the Executive Committee will also invite an Americas' International Member to participate as a voting member of the Executive Committee.

2. Responsibilities

- a. See Appendix C – Voting Criteria for voting responsibilities.
- b. Meet at least once per year to review and approve the overall direction and the following year's Generic Invoice Limit (GIL) of the BWR Owners' Group. A special Executive Committee meeting, in addition to the annual Executive Committee meeting, may be scheduled at the request of five (5) Executive Committee members.
- c. Assure annual Standing Purchase Orders and budgets are in place for each funding year.
- d. Chair serves as the interface with NRC Senior management to assure timely reviews of BWROG work.
- e. Chair presides over annual Executive Committee and EOC meetings.
- f. Vice Chair performs Chair's duties in the Chair's absence.

B. Executive Oversight Committee (EOC)

1. Membership

- a. The Executive Oversight Committee consists of the Executive Committee Chair and Vice Chair plus three (3) or more executives from the voting member utility companies or their designated service organizations, representing as many of the BWR types as practicable. A GVH executive or his designee shall participate as a non-voting member. The EOC may include at least one International Member executive (as a non-voting member) and shall include one utility's Chief Nuclear Officer (CNO) as a member.
- b. A CNO Sponsor to the EOC will be designated by the Executive Committee Chair. The CNO sponsor will provide insight, information, and guidance to the BWROG to support major BWROG leadership decisions and will serve as the BWROG interface with NSIAC in effort to support and enhance industry alignment. The CNO sponsor will not have utility voting privileges (unless the Sponsor is also an EC member), nor will attendance of the CNO sponsor at BWROG meetings be required for determination of a quorum.

2. Election/Term

- a. Members are generally elected at the annual executive meeting by the Executive Committee of voting member utilities for two-year terms on a staggered basis, but elections may be held via email should conditions warrant. The five (5) or more members are to be elected by name and no alternates shall serve in their place.
- b. Executive Committee Chair and Vice Chair elected or re-elected to nominal 24-month succeeding terms by the Executive Committee; normally, succession occurs at the annual Executive Committee Meeting during the year in which the new term begins.
- c. Variances to the 24-month terms can be requested in advance and are subject to vote by the Executive Committee.

3. Responsibilities

- a.

Meets as needed to fulfill responsibilities: usually for an annual meeting to endorse proposed budget for approval by the Executive Committee and to review prior year's performance, and optionally for an annual meeting with the NRC to discuss topics of mutual interest.
- b. Reviews the status of ongoing generic work for direction and progress.
- c. Directs BWROG officers on BWROG policy issues.
- d. Reviews the status of the management of emerging issues for direction and progress.
- e. Provides the Executive interface with the NRC to represent the BWROG when needed.

C. BWROG General Committee Officers

1. Membership

- a. Chair and Vice Chair of BWROG shall be employees of voting member utility companies or their designated service organizations.
- b. Chair and Vice Chair shall be experienced employees within their respective utilities able to apply substantial time commitments as required to fulfill the responsibilities of the office. The extensive role of the BWROG Chair requires that his utility make him available to serve the BWROG on a full-time basis. All member utilities will share the cost equally for

the salary and travel expenses of the BWROG Chair and for any approved travel expenses of the Vice Chair, which are to be approved by the BWROG Chair. Reimbursement of the cost-sharing payments to the utilities volunteering the Chair and Vice Chair will be made by distributing a credit to offset the cost of activities in which the volunteering utility is participating.

- c. BWROG Chairs and Vice Chairs are expected to perform their BWROG responsibilities consistent with the codes of conduct and acceptable business practices instituted by their own utilities. Conduct, which conflicts, or which may have the appearance of conflicting with these responsibilities, is to be avoided.

2. Election/Term

- a. Chair and Vice Chair candidates to be recommended by the current Chair and forwarded to the Executive Committee Chair for approval. The Executive Committee Chair shall review recommended candidates and forward nominations to the Executive Committee for voting.
- b. Chair and Vice Chair elected to nominal 24-month succeeding terms; normally, succession occurs at the first General Meeting of the year in which the new term begins.
- c. Variances to the 24-month terms can be requested in advance and are subject to vote by the Executive Committee.

3. Responsibilities

- a. See Appendix C – Voting Criteria for voting responsibilities.
- b. Chair provides overall management of BWROG activities and Program Manager.
- c. Chair plans, schedules, and presides over the BWROG General Meetings.
- d. Chair plans and schedules BWROG Advisory Committee and Potential Issues Review Team (PIRT) meetings/conference calls.
- e. Chair recommends assignment of new issues to committees.
- f. Chair responsible for expenditure of Administrative and General Meeting support funds.
- g. Chair reports status on activities to Executive Committee.
- h. Chair monitors and interacts with external interfaces and arranges for presentations to, or by, the BWROG, as appropriate.

- i. Chair coordinates activities of various BWROG Committees.
- j. Chair authorizes initial emerging issue assessment work, directs the management of emerging issues considering the recommendations of the Advisory Committee/Potential Issues Review Team (PIRT), and requests Executive Oversight Committee guidance and funding cap authorizations when appropriate.
- k. Chair maintains approved Charter and Operating Principles.
- l. Chair responsible for maintaining frequent communication with NRC Staff.
- m. Chair coordinates BWROG activities with the BWRVIP-II and is a member of the BWRVIP-II Integration Committee.
- n. Chair, in consultation with the Program Management Office, sets prices for sale of BWROG products to non-members.
- o. Chair responsible for ensuring that GVH BWROG Program Management Office (PMO) is adequately staffed with high quality Project Managers and Administrative Assistants. Chair, with input from the PMO Program Manager, is the final authority on which staff in the PMO is allowed to charge hours to the BWROG account.
- p. Chair, with concurrence of EC Chair, has final authority on selection and/or retention of the PMO Program Manager.
- q. Vice Chair performs Chair's duties in his absence and other duties assigned by Chair.

D. General Committee

1. Membership

The General Committee consists of one representative of each member utility company or their designated service organization and GVH. The representatives, referred to as Primary Representatives, shall be employees of the utilities or their service organizations having the authority and expertise to represent their organization in BWROG discussions and in voting on BWROG issues.

- a. All Prime Reps should attend the General Committee meetings.
- b. Each International Region will receive a share vote as outlined in Appendix D and are able to vote on generic issues as specified in Appendix C. The region representative will be one of region's Prime Reps and will provide the vote for the region. It is up to the International Prime Reps of the region to decide on the representative. If they are unable to decide, the BWROG Chair will make the decision.

2. Responsibilities

- a. See Appendix C – Voting Criteria for voting responsibilities.
- b. Represents utility interests by participating in General Meetings.
- c. Assures their company's representation on committees.
- d. Presents issues to BWROG Chair for consideration as BWROG activities.
- e. Assures that their company's financial obligations to BWROG are met.

E. Advisory Committee/PIRT

1. Advisory Committee

- a. The Advisory Committee consists of between four (4) and six (6) BWROG members at large, including a mixture of both BWROG Primary Representatives and Committee Chairs or Vice-Chairs from voting member utility companies or their designated service organizations. These members are designated by the BWROG Chair.
- b. Members shall be utility employees with experience or expertise in BWROG history, BWR plant licensing, plant engineering or plant operations within their respective utilities or their service organizations.
- c. The Advisory Committee is a Committee of selected Primary Representatives and Committee Chairs or Vice-Chairs who can be a resource for the BWROG Officers for the purpose of reviewing any issues forwarded for consideration and recommending courses of action.
- d. The BWROG Chair will notify the Prime Representatives of changes in the Advisory Committee by the next General Meeting after the change.

2. PIRT

- a. The Potential Issue Review Team (PIRT) provides rapid assessment and recommendations for BWROG action when appropriate to address “emerging issues”. The PIRT consists of the BWROG Officers, the Advisory Committee, and the BWRVIP-II Integration Committee Chair or his designee. The PIRT may elect to augment its team with consultants or additional utility personnel.
- b. PIRT members participate in any meetings/conference calls requested by the BWROG Chair.

F. Technical Committees

1. Membership

- a. Committees open to representatives from any utility providing funding and GVH Project Manager.
- b. Committee will consist of a Chair, Vice Chair plus remaining members who shall be employees of utility companies or their designated service organizations and the GVH Project Manager.
- c. The Committee Chair and Vice Chair shall have knowledge and experience consistent with the program technical and/or licensing content.
- d. Committee members shall be knowledgeable in the Committee's area of activity. They shall attend and participate in Committee meetings and reviews.
- e. Committee Chairs, Vice Chairs and all Committee members are expected to perform their BWROG responsibilities consistent with the codes of conduct and acceptable business practices instituted by their own utilities. Conduct, which conflicts, or which may have the appearance of conflicting with these responsibilities, is to be avoided.

2. Election/Term

- a. Chair and Vice Chair shall be nominated by Committee members to serve until termination of their committee, or they ask to resign.
- b. The Committee Chair nomination for either a generic or a non-generic committee shall be reviewed and approved by the BWROG Chair. The Committee Chair shall possess leadership skills, be endorsed by their utility's BWROG Primary Representative, and be approved by utility management of the represented utility.

3. Responsibilities of Officers

- a. Performing program on schedule and within budget.
- b. Planning, scheduling and presiding over Committee meetings.
- c. Maintaining estimates of cost and schedule to complete Committee activities.
- d. Preparing report to the BWROG on the status of Committee activities.
- e. Ensuring that the Committee activities adhere to the approved workscope.

- f. Vice Chair shall fulfill the responsibilities of the Chair in Chair's absence. It is the intent that if the Committee Chairman resigns, the Vice-Chairman is to succeed them, subject to the nomination and approval process. Members should be ready to fulfil this obligation.

G. Program Management Support (GVH)

- 1. General Owners' Group Program Management Support Responsibility
 - a. Provides program management and administrative support for BWROG officers and General Committee. This activity will be directed by the utility BWROG officers.
- 2. Technical Committee Project Management Support Responsibilities
 - a. Provides project management and administrative support for Technical Committees. This activity will be directed by the utility BWROG Officers and Technical Committee Chairs.
 - b. Assists the Committee Chair in assuring that Committee activities adhere to the approved workscope, funding and schedule.
 - c. Responsible for assuring the products of the Committee are technically sound.
 - d. Provides monthly financial status reports to the utility Committee Chair for all activities to support their committee management.
 - e. Documents action items identified by the utility Committee Chair for their use in assuring closure is completed by the identified date.
 - f. GVH Project Managers and support personnel are expected to perform their BWROG responsibilities consistent with the codes of conduct and acceptable business practices instituted by GVH. Conduct, which conflicts, or which may have the appearance of conflicting with these responsibilities, the interests of GVH or the interests of BWROG member utilities, is to be avoided.

H. Full Membership

- 1. All owners/operators of domestic US BWR's are eligible to become Full Members (voting members) of the BWROG. For these utilities, membership is required to participate in any BWROG activity including meetings, conferences, workshops, technical product development, etc.

I. International Membership

1. All owners/operators of non-domestic BWR's are eligible to become International Members of the BWROG. For these utilities, membership is required to participate in any BWROG activity including meetings, conferences, workshops, technical product development, etc.
2. The International Member Program is detailed in Appendix E.

J. Conditional Membership

1. Any utility that is actively designing/constructing a BWR and has no currently operating BWR plants is eligible to become a Conditional Member of the BWROG. For these utilities, membership is required to participate in any BWROG activity including meetings, conferences, workshops, technical product development, etc.
2. Conditional membership requires a commitment from the new member to fully participate at completion of fuel load (Full Membership or International Membership as applicable). Conditional Membership shall be administered in the same manner as the International Member Program. The utility begins full membership/International membership at completion of fuel load for the unit.
3. Shutdown/Decommissioned BWR plants may participate in the BWROG as Conditional Members.

K. Non-Members

1. Any organization that is not eligible to obtain Full, International, or Conditional Membership in the BWROG is considered a Non-Member. Eligibility to participate in any BWROG activity shall be at the discretion of the BWROG Chair. The BWROG Chair, in consultation with the Program Management Office, shall determine applicable fees for such participation.

VII. RELATIONSHIPS

A. Member Utilities

1. Each member utility is represented on the BWROG General Committee, and that representative provides direct communication between the BWROG and the utility.
2. Full member utilities, as well as Executives from one European and one Asia member utility, are represented at the Annual Executive Meeting to evaluate BWROG performance and continuation. If the Americas' region has met the requirements for a representative (see Appendix D), then they will be included also.

3. Selected utility executives from Full member (voting member) utilities participate in the Executive Oversight Committee.
4. The BWROG is a utility-directed organization with member utility employees specifying the workscope and managing the performance of work to assure successful task completion, on time and within budget. Utility employees comprise the committee, which is chaired by a member utility employee for the purpose of directing the work. It is the responsibility of the Committee to strategize the program and review the workscope to determine which portions utility personnel are available for and equipped to perform. Where availability of utility personnel limits their participation, contracted resources should be sought to support the utilities (see Section VII-C).
5. If a member chooses to leave the BWROG, the Executive Committee shall be notified of the intent and provided an assessment from the BWROG Chair of the timing and financial impact.
 - a. If the member is a conditional member, all BWROG materials should be requested to be returned or destroyed.
 - b. If a Full or International member, the utility may retain BWROG Technical Products they are entitled to from past membership, provided they have participated as an International or Full member for at least 5 years. Otherwise, all BWROG materials should be requested to be returned or destroyed.

B. Other Nuclear Steam Supply System Owners' Groups

1. BWROG shall maintain contact with the PWR Owners' Group through coordinated action plans, consolidated comments, and shared costs, where possible.

C. GVH

1. GVH is the preferred supplier of Program Management Support and technical scope approved by the BWROG. GVH will work closely with the BWROG officers and Technical Committee Chairs in the performance of these activities. As the reactor vendor for voting member utilities, GVH is also a member of the BWROG. In recognition of GVH's membership in the BWROG, GVH will cost share in both BWROG generic and non-generic activities through reduced labor billing.
2. The terms and conditions in Purchase Orders (PO's) between GVH and member utilities will control the ownership and use rights of the BWROG materials (generic and non-generic). GVH has the right to use BWROG materials (generic and non-generic) in their designs, modifications of designs or other activities if the materials were

developed by GVH or by vendors via GVH contracts and, as a result of GVH's membership in the BWROG, GVH has these same rights of use if the materials were developed by the member utilities for the BWROG.

3. The BWROG leadership should negotiate labor billing with GVH no less frequently than every 4 years. The resulting agreement would then be reflected in subsequent PO's.

D. Industry Organizations (EPRI, INPO, NEI)

1. Many issues related to the BWR are addressed by other industry organizations (EPRI, INPO, NEI), making it prudent for the BWROG to maintain open and frequent communication with them.
2. When appropriate for BWROG purposes, the BWROG may extend an invitation to each organization to provide a non-voting representative to attend BWROG General Meetings and may be invited to attend BWROG Executive Meetings at the discretion of BWROG Executives or technical committee meetings with the approval of the BWROG Chair.
3. These industry organizations provide technical support to selected BWROG activities.
4. NEI may request the BWROG to address an emerging issue on an immediate basis. Such requests shall be directed to the BWROG Chair.

E. Nuclear Regulatory Commission (NRC)

1. Due to the regulatory charter of the NRC within the nuclear industry, many BWR issues have licensing/safety impact requiring a close working relationship between the BWROG and the NRC. Therefore, an active dialog shall be maintained between the BWROG and the NRC staff and its management.
2. Advance consultation with, and concurrence from, the NRC of methods and approaches to the resolution of technical issues are often required by BWROG Committees to assure that realistic committee objectives are being pursued.
3. Existing channels of licensees/NRC conduct of business shall not be hindered as a result of BWROG/NRC relationships.
4. Information to the NRC
 - a. The BWROG has no authority to provide to the NRC any member utility/plant-specific information or identify any specific utility/plant by name without the explicit approval of the affected utility.

- b. The BWROG can provide to the NRC information representing a “group” of utilities/plants so long as the group is not identified. If utility/plant information is necessary to be provided to the NRC, such information shall be presented as representing “Utility A or Unit A”, etc.
 - 5. The BWROG has no authority to make any member utility commitments to the NRC. If formal commitments to the NRC of BWROG collective action are required, these must be made by letter from the BWROG Chair.
 - 6. The BWROG has no authority to enforce any member utility commitments made to the NRC or to enforce any BWROG commitments made to the NRC for any individual member utility.
- F. Boiling Water Reactor Vessel and Internals Project (BWRVIP-II)
- 1. The Boiling Water Reactor Vessel and Internals Project (BWRVIP) was initiated to address material issues concerning the integrity of the reactor pressure vessel (RPV) and vessel internals arising from intergranular stress corrosion cracking. This project has been expanded to address materials issues in and around the reactor pressure vessel (RPV), RPV internals, primary system piping and associated factors like fluence and water chemistry and has been designated BWRVIP-II.
 - 2. The BWROG and the BWRVIP-II maintain separate Charters, officers and program support structures. The BWROG and the BWRVIP-II maintain common membership rosters for their respective Executive and Executive Oversight Committees to the extent possible, with the exception of program management representation.
 - 3. The BWROG refers material issues in and around the reactor pressure vessel (RPV), RPV internals, primary system piping and associated factors (e.g. fluence and water chemistry) to the BWRVIP-II. The BWROG Chair may utilize the BWROG Advisory Committee and the Potential Issue Review Team (PIRT) for this determination. The BWRVIP-II refers issues outside the above described scope to the BWROG. The guiding principle is that issues be directed to the organization best suited to successfully address it for the Owners.
 - 4. The BWROG Chair and the BWRVIP-II Integration Committee Chair ensure that activities between the two organizations are coordinated. The BWROG Chair is a member of the BWRVIP-II Integration Committee and the BWRVIP-II Integration Committee Chair is a member of the BWROG PIRT. Coordination issues that cannot be resolved by the Chairs are referred to the Executive Oversight Committee.

VIII. COST SHARING BASIS

A. Generic Activities

A utility's share will be ONE cost share for the first unit¹, plus 0.5 share for each additional unit¹, with a cap of 2.0 shares per utility, based on the BWROG member utility mix identified in Appendix D. The generic cost share of any organization after the consolidation of two or more BWROG member utilities, will be the sum of the generic cost shares held by the consolidated utilities prior to the consolidation.

B. Non-Generic Activities

A utility's cost share will be ONE share per utility, independent of the number of units¹, based on the BWROG member utility mix identified in Appendix D. The non-generic cost shares of any organization after the consolidation of two or more BWROG member utilities, will be the sum of the individual non-generic cost shares held by the consolidated utilities prior to the consolidation. However, the cost shares of a consolidated organization may be recorded as the separate utility cost shares existing prior to the consolidation per Appendix D. This "split cost share" process will allow a consolidated organization to continue to participate in BWROG non-generic activities on the plant grouping basis that existed prior to the consolidation in accordance with Appendix D.

C. Financial Audits

Financial audits of the BWROG will be conducted at least every three years or as requested by the Primary Representatives.

IX. VOTING CRITERIA AND BASIS

A. Voting Criteria

A summary of the voting criteria to be used by the Executive Committee, EOC, General Committee, and Technical Committees for issues and funding is contained in Appendix C.

B. Voting Basis

1. Generic Activities

- a. A utility's vote will be ONE vote for the first unit¹, plus 0.5 votes for each additional unit¹, with a cap of 2.0 votes, based on the BWROG member utility mix identified in Appendix D. The generic voting basis of any organization after the consolidation of two or more BWROG member utilities will become the sum of the generic votes held by the consolidated utilities prior to the consolidation.

- b. Regardless of the number of vote shares held, a vote by a single (consolidated) entity shall not be sufficient to pass or defeat a generic proposal if all remaining members' votes (without abstention) are in agreement.

2. Non-Generic Activities

A utility's voting share will be ONE vote per utility, independent of the number of units¹, based on the BWROG member utility mix identified in Appendix D. The non-generic voting shares of any organization after the consolidation of two or more BWROG member utilities, will be the sum of the individual non-generic voting shares held by the consolidated utilities prior to the consolidation. However, the voting shares of a consolidated organization may be recorded as the separate utility voting shares existing prior to the consolidation per Appendix D. This "split voting" process will allow a consolidated organization to continue to participate in BWROG non-generic activities on the plant grouping basis that existed prior to the consolidation in accordance with Appendix D.

X. 2. LIMITS OF LIABILITY

- A. The BWROG assumes no financial, licensing or legal responsibility for its members.
- B. It is not the objective of the BWROG to act as a forum for equipment suppliers, consultants or contractors.
- C. Any legal relationship between contractors, consultants or Project Managers and a member will be established by, and limited to, specific agreements between these organizations and the member.

XI. TERMINATION

The BWROG shall continue on an annual basis unless terminated by specific action of the BWROG Executive Committee.

¹A utility's number of BWR units is equivalent to their number of BWRs with a license to operate.

APPENDIX A

FULL (VOTING) UTILITY MEMBERS

UTILITY	PLANT	BWR TYPE	CONTAINMENT TYPE
DTE Energy	Fermi-2	4	Mark I
Duke Energy	Brunswick-1	4	Mark I
	Brunswick-2	4	Mark I
Energy Northwest	Columbia	5	Mark II
Entergy	Grand Gulf	6	Mark III
	River Bend	6	Mark III
Constellation – Nine Mile Point	Nine Mile Point-1	2	Mark I
	Nine Mile Point-2	5	Mark II
Constellation – Clinton	Clinton	6	Mark III
Constellation – FitzPatrick	FitzPatrick	4	Mark I
Constellation-Peach Bottom/ Limerick	Peach Bottom-2	4	Mark I
	Peach Bottom-3	4	Mark I
	Limerick-1	4	Mark II
	Limerick-2	4	Mark II
Constellation- Dresden/LaSalle/Quad Cities	Dresden-2	3	Mark I
	Dresden-3	3	Mark I
	La Salle-1	5	Mark II
	La Salle-2	5	Mark II
	Quad Cities-1	3	Mark I
	Quad Cities-2	3	Mark I
Vistra Corp	Perry-1	6	Mark III

APPENDIX A

FULL (VOTING) UTILITY MEMBERS

UTILITY	PLANT	BWR TYPE	CONTAINMENT TYPE
Nebraska Public Power District	Cooper	4	Mark I
Talen Energy	Susquehanna-1	4	Mark II
	Susquehanna-2	4	Mark II
PSEG Nuclear	Hope Creek	4	Mark I
Southern Nuclear Operating Company	Hatch-1	4	Mark I
	Hatch-2	4	Mark I
Tennessee Valley Authority	Browns Ferry-1	4	Mark I
	Browns Ferry-2	4	Mark I
	Browns Ferry-3	4	Mark I
Xcel Energy	Monticello	3	Mark I

APPENDIX A

INTERNATIONAL MEMBERSHIP – ELIGIBLE UTILITIES

UTILITY	PLANT	BWR TYPE	CONTAINMENT TYPE
Chubu Electric Power Co. (Japan)	Hamaoka-3	5	Mark I*
	Hamaoka-4	5	
	Hamaoka-5	ABWR	
Comisión Federal de Electricidad (Mexico)	Laguna Verde-1	5	Mark II
	Laguna Verde-2	5	Mark II
Iberdrola Generación Nuclear, S. A. U. (Spain)	CN Cofrentes	6	Mark III
The Japan Atomic Power Co. (Japan)	Tokai-2	5	Mark II
Vattenfall Europe Nuclear Energy Gmbh (VENE) (Sweden)	Forsmark 1	Non-GVH	
	Forsmark 2	Non-GVH	
	Forsmark 3	Non-GVH	
Kernkraftwerk Leibstadt AG (KKL) (Switzerland)	Leibstadt	6	Mark III
OKG Aktiebolag (Sweden)	Oskarshamn 3	Non-GVH	

*Improved

APPENDIX A

INTERNATIONAL MEMBERSHIP – ELIGIBLE UTILITIES

UTILITY	PLANT	BWR TYPE	CONTAINMENT TYPE
Taiwan Power Company (Taiwan)	Chinshan 1	4	Mark I
	Chinshan 2	4	Mark I
	Kuosheng 1	6	Mark III
	Kuosheng 2	6	Mark III
Teollisuuden Voima Oyj (TVO) (Finland)	Olkiluoto-1	Non-GVH	
	Olkiluoto-2	Non-GVH	
Tohoku Electric Power Co. (Japan)	Onagawa-2	5**	Mark I***
	Onagawa-3	5**	Mark I***
	Higashidori-1	5**	Mark I***
Tokyo Electric Power Co. (Japan)	Fukushima Daiichi-1*	3	Mark I
	Fukushima Daiichi-2*	4	Mark I
	Fukushima Daiichi-3*	Non-GVH	
	Fukushima Daiichi-4*	Non-GVH	
	Fukushima Daiichi-5*	Non-GVH	
	Fukushima Daiichi-6*	5	Mark II
	Fukushima Daini-1*	Non-GVH	
	Fukushima Daini-2*	Non-GVH	
	Fukushima Daini-3*	Non-GVH	
	Fukushima Daini-4*	Non-GVH	
	Kashiwazaki Kariwa-1	Non-GVH	
	Kashiwazaki Kariwa-2	Non-GVH	
	Kashiwazaki Kariwa-3	Non-GVH	
	Kashiwazaki Kariwa-4	Non-GVH	
	Kashiwazaki Kariwa-5	Non-GVH	
	Kashiwazaki Kariwa-6	ABWR	
	Kashiwazaki Kariwa-7	ABWR	

*For purposes of cost sharing, the Fukushima Daiichi and Daini units are not considered operating units.

**Non-GVH

***Improved

APPENDIX A

INTERNATIONAL MEMBERSHIP – ELIGIBLE UTILITIES

UTILITY	PLANT	BWR TYPE	CONTAINMENT TYPE
The Chugoku Electric Power Company (Japan)	Shimane 2	Non-GVH	
Hokuriku Electric Power Company (Japan)	Shika 1 Shika 2	Non-GVH Non-GVH	

APPENDIX A

CONDITIONAL MEMBERS – ELIGIBLE UTILITIES

UTILITY	PLANT	BWR TYPE	CONTAINMENT TYPE
JPower	Under Construction	Non-GVH	
Ontario Power Generation (OPG) (Canada)	Under Construction	X300	

APPENDIX B

BWR OWNERS' GROUP STANDARD FINANCIAL AUDIT PROGRAM

I. INTRODUCTION

Financial Audits shall be performed at the discretion of the Primary Representatives but not less than once every three years. The financial records of the Boiling Water Reactor Owners' Group (BWROG) will be examined by an audit team composed of four (4) member representatives of multiple domestic participating utilities. The financial records are maintained by GVH in Wilmington, North Carolina, and the audit of such records, at the request of member utilities, will be examined following the audit schedule defined by Exhibit II.

The on-site audit will be conducted at GVH Wilmington, North Carolina office. Following confirmation of the audit scope GVH will be allowed ample time to assemble the financial records and to ensure that the records will be available at the start of the audit.

The audit team will conduct the audit in compliance with generally accepted audit standards. This requires the audit team members to:

- a. Implement independence with respect to the client under examination.
- b. Exercise due professional care.
- c. Be competent in the performance of their work.
- d. Develop complete evidential support for the Audit Report in the form of appropriate work papers.

II. OBJECTIVES

- a. Primary objectives of the financial audit are to:
 1. Conduct an examination of the BWROG financial records that will enable the auditor to render an opinion regarding the fairness with which the financial records are presented.
 2. To judge (carry out audit procedures and techniques) whether or not the financial records fairly represent legitimate charges applied against BWROG activities for the preceding year.
- b. Secondary objectives of the financial audit are to:
 1. Discourage the inclination toward bias in the financial reporting.
 2. Assure records are not falsified.
 3. Provide helpful suggestions to the BWROG Program Manager regarding the financial organization and accounting of Owners' Group activities.

APPENDIX B

BWR OWNERS' GROUP STANDARD FINANCIAL AUDIT PROGRAM

III. SCOPE

The audit of the financial records of BWROG activities applies to the authorization, reporting, and accounting of BWROG costs in accordance with the policies and procedures of GVH and those prescribed in the BWROG Charter. The scope of the audit will be proposed by the BWROG Chair prior to the audit and will be of sufficient depth and breadth to determine to what extent the financial records are valid and relevant. The audit scope should consider inclusion of BWROG activities that had implementation issues such as overspending, late product delivery, and stops and starts. The Primary Representatives approve the proposed scope of the audit. During the audit, the audit team has the discretion to add to the approved scope if deemed necessary to accomplish the goals and it can be completed within the audit window.

IV. AUDIT PROGRAM

- a. The audit of BWROG activities will include a review of the following records:
 1. Billing statements along with support documentation for charges on labor, travel and living, subcontractors, material, computer, graphics, and other expenses.
 2. Funding Requests and Voting records.
 3. Ad Hoc Committees.
 4. International and Conditional Member credits.
 5. Financial duties and responsibilities of the Program Manager.
 6. Evidence that actions have been taken to implement the previous audit response commitments.
- b. To accomplish the above, the following assessments will be made:
 1. Determine, through the review of financial records, that:
 - a. Balances are correct.
 - b. Adequate disclosure is made in the accounting records.
 2. Determine any:
 - a. Overstatement of account balances.
 - b. Understatement of account balances.

APPENDIX B

BWR OWNERS' GROUP STANDARD FINANCIAL AUDIT PROGRAM

3. Review company policy and procedures and determine if such practices are being followed.
 4. Determine the math accuracy of BWROG records (i.e. billing statements).
 5. Determine if internal financial control is satisfactory.
 6. Determine if actions implemented to correct the previous audit recommendations are being successful.
- c. To accomplish the forenamed objectives, specific auditing procedures will be established by the audit team prior to the audit. Some procedures will be standardized to improve the efficiency of the audit, while other procedures will be developed as deemed necessary under the circumstances. The procedures used and the evidence gathered will be incorporated in the audit working papers.

V. WORKING PAPERS

- a. The audit team will prepare and maintain working papers during each audit engagement and such working papers will be the property of the audit team. The information contained in the working papers will constitute the principal record of:
 1. The work done by the audit team.
 2. The conclusions reached concerning significant matters.
- b. The working papers will serve mainly to provide the principal support for the audit report and as an aid to the Lead Auditor in the conduct and supervision of the audit.
- c. The working papers will be retained in the BWROG permanent document repository at the conclusion of the audit. The lead auditor shall ensure the auditors have access to the permanent document depository prior to the audit.
- d. Copies of any support documentation provided to the audit team by GVH will be made available to the audit team following the on-site audit, as requested.

APPENDIX B

BWR OWNERS' GROUP STANDARD FINANCIAL AUDIT PROGRAM

VI. AUDIT REPORT

The Audit Report will be finalized by the Lead Auditor. The audit report will contain the audit team's findings and conclusions, recommended changes or improvements and any significant unresolved matters. Support documentation applicable to the Audit Report will be incorporated from the audit working papers. Significant matters unresolved at the close of the audit but prior to the issuance of the report will be termed "open items" and disclosed separately in the final report. After issuance of the report, "open items" will be followed up by the Lead Auditor. The closure of these items will constitute an amendment to the original Audit Report.

VII. AUDIT CLOSURE

The final audit report will include GVH responses to the audit recommendations and open items. The final Audit Report will be distributed to the BWROG Chair, Vice Chair, Program Manager, Executive Oversight Committee and to each member utility. The audit will be considered closed following approval by a majority of the BWROG Primary Representatives and reporting results to the EOC.

VIII. RECOMMENDED CHANGES/IMPROVEMENTS TO AUDIT PLAN

To assist future audit teams and GVH in the conduct of subsequent BWROG financial audits, the audit team will provide, in writing, any recommendations for improving the conduct of future audits to the BWROG Chair, Vice Chair and the Program Manager.

EXHIBIT II
(Sample)

BWR Owners' Group Financial Audit
Schedule of Activities/Milestones

TIME	ACTIVITY	MILESTONE
T – 9 months	Schedule Identified Utility Lead and Candidate Auditors Requested (BWROG Chair)	Plan Set in Motion
T – 9 months	Utility Lead (Lead Auditor) and Audit Team Identified	Audit Lead and Team Announced
T-9 months thru T-6 months	BWROG Chair Defines Scope and Records Needs for GVH	EOC and Primary Representatives notified of scope
T – 5 months	Primary Representatives Approve Audit Scope	Meeting Summary Recording Approval of Audit Scope
T – 5 months thru T – 1 month	GVH Collects Audit Materials	Electronic Copy Records Available at Start of Audit
T – 0	On-site Audit	Audit Complete
T + 3 months	Lead Auditor Reports Preliminary Findings	Preliminary Audit Report
T + 4 months	Closure of Audit Items	Audit Closure Vote Requested at First GM of Following Year and Reported to the EOC

APPENDIX C

BWR OWNERS' GROUP VOTING CRITERIA

	GENERIC	NON-GENERIC	EXECUTIVE COMMITTEE	GENERAL COMMITTEE	TECHNICAL COMMITTEE
FUNDING & WORKSCOPE ISSUES					
Funding & Workscope; approval of	X			3/4 MAJORITY	
		X		TWO OR MORE MEMBERS WILLING TO SHARE COST	
Generic Invoice Limit (GIL); approval of	X		3/4 MAJORITY		
Net Cumulative increases to Funding with or without changes to Workscope for existing issues; approval of. (Note: CHAIR may approve Funding Reductions up to Funding amount)	X	X	3/4 MAJORITY (GIL IMPACT)	CHAIR (\leq \$150K) ^{3,4} or 2/3 MAJORITY ($>$ \$150K)	
Changes to Workscope for existing issues; approval of	X	X		CHAIR	
INDUSTRY ISSUE INVESTIGATION					
Allocate approved Ad Hoc Committee funds for issue review and investigation; authorization to	X			CHAIR or SIMPLE MAJORITY	
Allocate approved Specific Topics funds for issue investigation, audit support, work with other Owners'/Industry groups, or other similar activities; authorization to	X			CHAIR	
Allocate approved Industry Follow Budget to support BWROG involvement on an industry issue not currently funded; authorization to	X			CHAIR (\leq \$25K) ²	
ELECTIONS					
BWROG Officers (General Chair and Vice Chair, Executive Chair and Vice Chair, and			CHAIR		

APPENDIX C

BWR OWNERS' GROUP VOTING CRITERIA

	GENERIC	NON-GENERIC	EXECUTIVE COMMITTEE	GENERAL COMMITTEE	TECHNICAL COMMITTEE
three or more EOC at-Large members); nomination of					
BWROG Officers (General Chair and Vice Chair, Executive Chair and Vice Chair, and three or more EOC at-Large members); selection of			2/3 MAJORITY		
Committee Officers (Chair and Vice Chair); selection of				CHAIR, PRIME REP, and UTILITY MANAGER	SIMPLE MAJORITY
BWROG DOCUMENTS					
Changes to the BWROG Charter; approval of			2/3 MAJORITY ⁵		
Changes to the BWROG Operating Principles; approval of				2/3 MAJORITY ⁵	
Technical products; approval of	X	X		CHAIR	CHAIR and SIMPLE MAJORITY
OTHER ISSUES					
External correspondence to the NRC; approval of	X	X		SIMPLE MAJORITY*	
External presentations to non-members; approval of	X	X		CHAIR	
Categorization of issues as generic or non-generic; approval of	X	X		CHAIR	
Financial Audit Team; selection of scope and closure				CHAIR	
Other matters (generic and/or non-generic), unless provided elsewhere; approval of	X	X		SIMPLE MAJORITY	
Other committee matters unless provided elsewhere; approval of					SIMPLE MAJORITY
Termination of BWROG			2/3 MAJORITY		

APPENDIX C

BWR OWNERS' GROUP VOTING CRITERIA

NOTES:

1. Approval by the General Committee (i.e. Prime Reps) for generic issues denoted with an asterisk symbol (*) refers to domestic members only. The International Representatives per Appendix D will vote with the Full voting members for all other generic issues. Majority level stated is of attending Executive, Prime, or Technical Committee representative at the meeting (or their designated alternates), including any pre-meeting phone votes using voting criteria and basis described in paragraph IX (Voting Criteria and Basis) and Appendix D (Share/Voting Structure) of the BWROG Charter.
2. Specified dollar limit criteria are per activity per funding year.
3. Non-generic funding increases require consultation with the affected utilities' Prime Representatives by the BWROG Chairman to ensure utilities' POs provide for the increase.
4. The BWROG Chairman can approve net cumulative increases up to \$150K from the initial approved funding request. Beyond \$150K net cumulative increase, the General Committee needs to vote. After the General Committee approval, the BWROG Chairman can once again approve up to another \$150k of net cumulative increase before requiring another General Committee vote.
5. Administrative revisions (e.g. grammar, utility name update, etc.) to the Charter or Operating Principles may be performed without Executive Committee or General Committee approval, respectively; instead, BWROG Chairman approval is required.

APPENDIX D

SHARE/VOTING STRUCTURE USED AS THE BASIS FOR FUTURE CONSOLIDATION OF BWROG MEMBER UTILITIES FOR GENERIC & NON-GENERIC BWROG ACTIVITIES

BWROG Member	NON-GENERIC VOTES & SHARES	GENERIC VOTES	GENERIC SHARES
Asia Region Representative ¹		1.0	
DTE Energy	1.0	1.0	1.0
Duke Energy	1.0	1.5	1.5
Energy NW	1.0	1.0	1.0
Entergy – GGNS/RBS	1.0	1.5	1.5
Europe Region Representative ¹		1.0	
Constellation – Nine Mile Point	1.0	1.5	1.5
Constellation – Clinton	1.0	1.0	1.0
Constellation – FitzPatrick	1.0	1.0	1.0
Constellation – PB/LIM	1.0	2.0	2.0
Constellation – Dres/QC/LaSalle	1.0	2.0	2.0
Vistra Corp	1.0	1.0	1.0
GVH ¹		1.0	
NPPD	1.0	1.0	1.0
Talen Energy	1.0	1.5	1.5
PSEG Nuclear	1.0	1.0	1.0
SNC	1.0	1.5	1.5
TVA	1.0	2.0	2.0
Xcel Energy	1.0	1.0	1.0
Totals	16.0 Shares/Votes	24.5 Votes	21.5 Shares

1-For Generic activities only, GVH, one Asia Region representative, and one European Region representative are authorized voting privileges. If two International Members are in the Americas' Region, then one Americas' representative would be added to this table and authorized voting privileges.

APPENDIX E

BOILING WATER REACTOR OWNERS' GROUP (BWROG) INTERNATIONAL/CONDITIONAL MEMBER PROGRAM

MISSION

The mission of the Boiling Water Reactor Owners' Group (BWROG) International Member Program is to provide a forum, in the spirit of partnership with GE Vernova Hitachi Nuclear Energy Americas LLC ("GVH") and US based BWR Utilities, which allows non-domestic BWR utilities to participate in BWROG Activities.

ORGANIZATION

A. Executive Point of Contact

1. Each International Program Member shall identify an executive point of contact (i.e. elected company officer or general manager with nuclear responsibility) to provide high-level oversight and interaction on significant issues.
2. Responsibilities
 - a. Assure annual Purchase Orders and budgets are put in place in accordance with Section I of the BWROG Operating Principles for approved generic issues or as voted by the Primary Representative.
 - b. Assures that their company's financial obligations to BWROG are met.

B. Executive Representative

1. Two international Executive Representatives will participate as voting members on the Executive Committee as detailed in Appendix D.
2. The members of the respective regions (i.e. Asia and Europe) will determine who the Executive Representative will be.

C. Primary Representative

1. Each International Program Member shall identify a representative as the main point of contact for BWROG International Program Administration.
2. Responsibilities
 - a. Represents utility interests by participating in required meetings.

APPENDIX E

BOILING WATER REACTOR OWNERS' GROUP (BWROG) INTERNATIONAL/CONDITIONAL MEMBER PROGRAM

- b. Invited to attend BWROG General Meetings.
- c. Assures their company's representation on committees for which they are participants.
- d. Presents issues to BWROG Chair for consideration as BWROG activities.
- e. Approves funding and workscope for applicable Non-Generic activities.
- f. Approves transmittal of BWROG letters and reports that involve International Program Member information outside BWR Owners' Group.

D. Technical Committees

1. Membership

- a. International/Conditional Member Program Utilities are participants in all Generic Technical Committees by their membership in the International Member Program.
- b. International Member Program Utilities can elect to purchase membership in Non-Generic Technical Committees as outlined below under Cost Sharing Basis.
- c. International/Conditional Member Program Utilities are participants in all Ad Hoc Committees by their membership in the International Member Program.
- d. Committee members shall be knowledgeable in the Committee's area of activity. They should attend and participate in Committee meetings and reviews.

E. Conferences and Workshops

- 1. Each year the BWROG will conduct up to two International Conferences (typically one each in Europe and Asia).
- 2. Each year the BWROG will conduct up to four International Workshops (topics and locations determined by BWROG Chair).

F. Program Management (GVH)

APPENDIX E

BOILING WATER REACTOR OWNERS' GROUP (BWROG) INTERNATIONAL/CONDITIONAL MEMBER PROGRAM

1. GVH provides administration of the International/Conditional Member Program.
 - a. Provides project management and administrative support for Technical Committees.
 - b. Responsible for assuring the products of the Committee are technically sound.
 - c. Provides contracts (directly or through GVH international affiliates), billing and financial status reports to the utility.

COST SHARING BASIS

International Members are subject to an annual participation fee equal to a percentage of a generic share of the BWROG Generic Budget (actual costs). In the event that the Generic Budget is revised mid-year, the EC will vote on whether International Member fees for that year be changed proportionally or remain based on the previously approved baseline Generic Budget for the year. The amount paid by each utility is related to the number of operating BWR's the utility owns/operates as specified in Tables 1 and 2 below.

International Member annual proposal fees will be based on the approved GIL for the participation year. International Member invoices will be based on the year-end actual generic costs for the year of participation. International Member payments are credited to the US members that are active in the year in which the payment is received by GVH.

The annual membership fee will cover the costs for International conferences, workshops, and seminars including logistics, contractors, and GVH staff.

A. Generic Activities

The annual membership fee will cover the costs for participation in all Generic BWROG Technical Committees, including ability to attend committee meetings and receive committee products.

B. Non-Generic Activities

1. International Members may also purchase membership in one or more Non-Generic Technical Committee's activities by paying an additional fee equal to a percentage of one pro-rata share for that particular activity (refer to Table 1). A pro-rata share is defined as the total funds authorized for an activity divided by the number of voting member utilities participating in that activity. The Purchase Order for these products shall clearly establish that only the purchasing utility has usage rights for the purchased products.
2. A utility's cost share will be in accordance with the Non-Generic funding request for the particular committee.

APPENDIX E

BOILING WATER REACTOR OWNERS' GROUP (BWROG) INTERNATIONAL/CONDITIONAL MEMBER PROGRAM

3. Membership in a Non-Generic committee entitles the utility to attend all committee meetings and receive committee products.
4. Participation in a Non-Generic committee is a requirement to receive products from the committee.

APPENDIX E

BOILING WATER REACTOR OWNERS' GROUP (BWROG) INTERNATIONAL/CONDITIONAL MEMBER PROGRAM

VOTING CRITERIA, SCOPING, AND BASIS

A. Non-Generic Committee Scoping and Voting Criteria

International Member Utilities are encouraged to provide input and are entitled to a vote related to committee expenditures, meeting locations, and scope.

B. Generic Committee Scoping and Voting Criteria

1. Generic Technical Committees will address International Member affected scope (equipment type, analysis methodology, regulatory issues, etc.) provided that inclusion of this scope does not affect the approved scope, cost, and schedule for the Committee. Determination of inclusion of International Member scope will be approved in advance by the BWROG Chair.
2. Should it be determined that the International Member scope cannot be accomplished within the committee scope, the International Member utility can request a proposal from GVH to include their scope as a separate product.

APPENDIX E

BOILING WATER REACTOR OWNERS' GROUP (BWROG) INTERNATIONAL/CONDITIONAL MEMBER PROGRAM

Table 1 – Cost Share Allocation

	Single Unit	2-9 Units	>9 units
Annual Membership Fee (% of US Share which is based on actual Generic costs)	37.5%	50.0%	62.5%
Non-Generic Committee Fee (% of Pro rata Share)	100%	100%	100%

APPENDIX E

BOILING WATER REACTOR OWNERS' GROUP (BWROG) INTERNATIONAL/CONDITIONAL MEMBER PROGRAM

Note: For illustration, assume the Generic Invoicing Limit (GIL) is \$10,000,000 and there are 25 domestic paying shares. In this case, the value of one domestic GIL share would be \$400,000.

If the actual Generic cost for that year (based on Oracle invoices) is \$9,500,000, the value of one domestic share, based on actual costs, would be \$380,000.

Applying Appendix E Table cost shares, the following example shows how International and Conditional Member fees are derived:

Example Case

	Single Unit	2-9 Units	>9 units
Annual Fee (Based on Approved GIL)	\$150,000	\$200,000	\$250,000
Annual Fee (Based on Actual Generic Costs)	\$142,500	\$190,000	\$237,500

APPENDIX E

BOILING WATER REACTOR OWNERS' GROUP (BWROG) INTERNATIONAL/CONDITIONAL MEMBER PROGRAM

Table 2 – Utility Cost Share

Utility	Number of Operating Units (App. A)	Membership Fee Percentage
Chubu Electric Power Co.	3	50.0%
Comisión Federal de Electricidad (CFE)	2	50.0%
Iberdrola Generación Nuclear, S. A. U.	1	37.5%
The Japan Atomic Power Co. (JAPC)	1	37.5%
Vattenfall Europe Nuclear Energy GmbH (VENE)	3	50.0%
Kernkraftwerk Leibstadt AG (KKL)	1	37.5%
OKG Aktiebolag	1	37.5%
Taiwan Power Company	2	50.0%
Teollisuuden Voima Oyj (TVO)	2	50.0%
Tohoku Electric Power Co.	3	50.0%
Tokyo Electric Power Co. (TEPCO)	7	50.0%
The Chugoku Electric Power Company	1	37.5%
Hokuriku Electric Power Company	2	50.0%
J POWER*	N/A	37.5%
Ontario Power Generation (OPG)*	N/A	37.5%

*Eligible for Conditional Membership