

ADAMS Doc #	Sites	Utility/Org.	GOTHIC Vers.	Date of Approval	Title	Description
ML003683137	Arkansas Nuclear One 1&2	Entergy Nuclear Operations	6.1	Jul-99	Review of Arkansas Nuclear One (Units 1 & 2) Waterhammer and Two-Phase Flow Analysis	License Amendment Review in association with response to GL 96-06, a GOTHIC model was used to assist in the evaluation of potential water hammer and two-phase flow issues for containment unit coolers during Loss of Coolant Accident (LOCA) and Main Steam Line Breaks (MSLB).
ML003683691	Browns Ferry 1 (retired), 2, & 3	Tennessee Valley Authority	Not Stated	15-Feb-00	Response to Generic Letter 96-06 Concerning Waterhammer, Two-Phase Flow, and Expansion of Entrapped Water in Piping	Response to GL 96-06 using GOTHIC to evaluate boiling potential in the RBCCW system under Main Steam Line Break (MSLB) or Loss of Coolant Accident (LOCA) conditions.
ML060540205	Brunswick 1&2	Duke Energy	Not Stated	2-Mar-06	Issuance of Amendment RE: Main Steam Isolation Valve Leakage Limit (TAC Nos. MC8106 and MC8107)	License Amendment using GOTHIC to analyze the temperature profile of the Main Steam Lines (MSL) under post-Loss of Coolant Accident (LOCA) conditions.
ML021130572	Clinton	Exelon Generation Co., LLC	6.1	16-Nov-01	Request for Amendment to Appendix A, Technical Specifications to Revise Suppression Pool Water Level and Upper Containment Pool Water Level Requirements in Mode 3	Amendment Request documenting GOTHIC use for suppression pool hydrodynamic load analysis during a Loss of Coolant Accident (LOCA) and long term heat sink during a Main Steam Line Break (MSLB).
ML030990603	Clinton	Exelon Generation Co., LLC	Not Stated	28-Mar-03	Additional Information Supporting the License Amendment Request to Revise Suppression Pool Water Level and Upper Containment Pool Water Level Requirements in Mode 3	Additional Information supporting the Amendment Request which documents GOTHIC use for suppression pool hydrodynamic load analysis during a Loss of Coolant Accident (LOCA) and long term heat sink during a Main Steam Line Break (MSLB).
ML031290397 (SER)	Clinton	Exelon Generation Co., LLC	Not Stated	12-Jun-03	Issuance of Amendment (TAC No. MB3578)	Approval of Amendment Request documenting GOTHIC use for suppression pool hydrodynamic load analysis during a Loss of Coolant Accident (LOCA) and long term heat sink during a Main Steam Line Break (MSLB).
ML033010437	Duane Arnold	NextEra Energy Duane Arnold, LLC	Not Stated	20-Oct-03	Report of Facility Changes, Tests and Experiments, Fire Plan Changes and Commitment Changes	Report of Facility Change documenting use of GOTHIC for High Energy Line Break (HELB) both inside and outside containment and Loss of Coolant Accident (LOCA) as part of the Environmental Qualification (EQ) Program and Extended Power Uprate (EPU).
ML020580402	Grand Gulf 1	Entergy Nuclear Operations	6.1	25-Feb-02	License Amendment Request New Special Operations Limiting Condition for Operation Suppression Pool Makeup-Mode 3	License Amendment Request for use of GOTHIC in determining the containment temperature and pressure response as well as hydrodynamic loads during Mode 3 Main Steam Line Breaks (MSLBs) and Loss of Coolant Accidents (LOCAs).
ML022490416	Grand Gulf 1	Entergy Nuclear Operations	6.1	6-Sep-02	Issuance of Amendment Re: Reactor Cavity Pool Draindown	Approval of License Amendment Request to use GOTHIC in determination of the containment temperature and pressure response as well as hydrodynamic loads during Mode 3 Main Steam Line Breaks (MSLBs) and Loss of Coolant Accidents (LOCAs). GOTHIC was also used for calculation of the Mass and Energy (M&E) release during a LOCA.
ML091250564	Point Beach 1&2	NextEra Energy Point Beach, LLC	7.2a	7-Apr-09	License Amendment Request 261, Extended Power Uprate	License Amendment Request for Extended Power Uprate (EPU) including use of GOTHIC for compartment response following a Loss of Coolant Accident (LOCA), Main Steam Line Break (MSLB) and High Energy Line Break (HELB) events.
ML993630211	South Texas 1&2	STP Nuclear Operating Co.	5.0e	20-Dec-99	Request for Additional Information, Generic Letter 96-06	RAI, in association with response to GL 96-06, mentioning use of GOTHIC for the evaluation of water hammer and two-phase flow in containment unit coolers. The submittal includes reference to an EPRI report (Containment Air Cooler Heat Transfer During Loss of Coolant Accident (LOCA) with Loss of Offsite Power Conditions (LOOP)) used for code validation by STP.

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ML073120506	Surry 1&2	Dominion Generation/ Virginia Electric	Not Stated	15-Nov-07	Issuance of Amendments RE: Alternate Use of GOTHIC Code for Recirculation Spray System - Exigent Circumstances	Amendment approving the use of GOTHIC for Net Positive Suction Head (NPSH) and Loss of Coolant Accident (LOCA) analyses.
ML083170346	Three Mile Island 1	Exelon Generation Co., LLC	Not Stated	10-Nov-08	Response to RAI Related to GL 2004-02, "Potential Impact of Debris Blockage on Emergency Recirculation during Design Basis Accidents at Pressurized-Water Reactors"	Response to RAI describing use of GOTHIC for Low Pressure Injection (LPI) and Building Sump (BS) pump Net Positive Suction Head margin (NPSHm) analyses post-LOCA.
ML051030068	Waterford 3	Entergy Nuclear Operations	7.0	15-Apr-05	Issuance of Amendment RE: Extended Power Uprate	Safety Evaluation and License Amendment for use of GOTHIC to calculate containment response for LOCA and MSLB events, in support of Extended Power Uprate (EPU).