

**UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION**

In the Matter of)
) **Docket Nos. 50-352-LR**
) **50-353-LR**
Exelon Generation Company, LLC)
)
Limerick Generating Station, Units 1 & 2) **July 2, 2012**

**INITIAL DISCLOSURES OF NATURAL RESOURCES
DEFENSE COUNCIL FILED PURSUANT TO 10 C.F.R. § 2.336(a)**

**ATTACHMENT B
(Documents Relevant to Contention E-1)**

AmerGen Energy Company, LLC (AmerGen). 2008. Applicant's Environmental Report – Operating License Renewal Stage: Three Mile Island Nuclear Station Unit 1, Appendix E – Severe Accident Mitigation Alternatives Analysis. U.S. NRC Docket No. 50-289. **(FILE: THREEMILEISLAND_tmi-lra-appendix-e.pdf)**

Bureau of Economic Analysis. 2011. Regional gross domestic product and personal income data was downloaded from the U.S. Department of Commerce Bureau of Economic Analysis website (<http://www.bea.gov>). **(FILE: personal_income.xlsx)**

U.S. Department of Agriculture (USDA). 2011. National Agricultural Statistics Service webpage (<http://quickstats.nass.usda.gov/>). **(FILE: AG.xlsx)**

U.S. Census Bureau (Census Bureau). 1990. Population totals by census tract from the 1990 Census were downloaded from the Center for Disease Control and Prevention 1990 Census data website (<http://www2.cdc.gov/nceh/lead/census90/house11/download.htm>). GIS data for the 1990 Census Tract boundary polygons were obtained from the U.S. Census Bureau's Census 1990:Census Tract Cartographic Boundary Files website (<http://www.census.gov/geo/www/cob/tr1990.html>). **(FILES: 1990Census_DE_wgs84, 1990Census_MD_wgs84, 1990Census_NJ_wgs84, 1990Census_PA_wgs84, WITH FILE EXTENSIONS: .DBF, .PRJ, .SBN, .SBX, .SHP, .SHX, .DBF)**

U.S. Census Bureau (Census Bureau). 2000. Population totals by census tract from the 2000 Census were downloaded from the Census Bureau's American Factfinder webpage (<http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>) for the states of Delaware, Maryland, New Jersey and Pennsylvania. GIS data for the 2000 Census Tract boundary polygons were obtained from the U.S. Census Bureau's Census 2000:Census Tract Cartographic Boundary Files website (<http://www.census.gov/geo/www/cob/tr2000.html>). **(FILES: bg10_d00, bg24_d00, bg34_d00, bg42_d00, WITH FILE EXTENSIONS: .DBF, .SHP, .SHX)**

U.S. Census Bureau (Census Bureau). 2011. Population totals by census tract from the 2010 Census were downloaded from the Census Bureau's American Factfinder webpage (<http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>) for the states of Delaware, Maryland, New Jersey and Pennsylvania. GIS data for 2010 Census tract boundary polygons were obtained from the U.S. Census Bureau's 2010 Tiger/Line Shapefile webpage (<http://www.census.gov/geo/www/tiger/tgrshp2010/tgrshp2010.html>). **(FILES: DE_2010CENSUS_TRACTS_TOTALPOP, MD_2010CENSUS_TRACTS_TOTALPOP, NJ_2010CENSUS_TRACTS_TOTALPOP, PA_2010CENSUS_TRACTS_TOTALPOP, WITH FILE EXTENSIONS: .DBF, .PRJ, .SBN, .SBX, .SHP, .SHX, .DBF)**

U.S. Census Monitoring Board: Presidential Members (Census Monitoring Board). 2001. Final Report to Congress, September 1. **(FILE: FinalReport.pdf)**

Constellation Energy. 2004. Applicant's Environmental Report – Operating License Renewal Stage: Nine Mile Point Nuclear Station Units 1 & 2, Appendix F – Severe Accident Mitigation Alternatives (SAMAs), June. **(FILE: NINE_MILE_POINT_SAMA_ML041490222.pdf)**

D.I. Chanin & W.B. Murfin. 1996. SAND96-0957, Site Restoration: Estimation of Attributable Costs from a Plutonium-Dispersion Accident, May. **(FILE: Chanin and Murfin 1996 Site Restoration SAND96-0957.pdf)**

D. Chanin & M.L. Young. 2008. NUREG/CR-6613, Vol. 1, Code Manual for MACCS2, User's Guide, May. **(FILE: 481 MACCS2 Vol 1.pdf)**

Energy Northwest. 2010. Columbia Generating Station License Renewal Application, Environmental Report, Attachment E: Severe Accident Mitigation Alternatives Analysis, January. **(FILE: COLUMBIA_columbia-er.pdf)**

Entergy Nuclear FitzPatrick, LLC, and Entergy Nuclear Operations, Inc. (Entergy). 2006a. James A. FitzPatrick Nuclear Power Plant --- License Renewal Application, Appendix E: Applicant's Environmental Report, Operating License Renewal Stage, Appendix G: Severe Accident Mitigation Alternatives, August. **(FILE: FITZPATRICK_appendix-g.pdf)**

Entergy Nuclear Generation Company (Entergy). 2006b. Applicant's Environmental Report – Operating License Renewal Stage: Pilgrim Nuclear Power Station, Attachment E – Severe Accident Mitigation Alternatives, January. **(FILE: PILGRIM_environ-report_attach-e.pdf)**

Entergy Nuclear Vermont Yankee, LLC, and Entergy Nuclear Operations, Inc. (Entergy). 2006c. Vermont Yankee Nuclear Power Station Applicant's Environmental Report Operating License Renewal Stage, Environmental Report, Attachment E: Severe Accident Mitigation Alternatives Analysis, January. **(FILE: VERMONTYANKEE_environ-report_attach-ef.pdf)**

Entergy Nuclear Generation Company (Entergy). 2011. Applicant's Environmental Report – Operating License Renewal Stage: Grand Gulf Nuclear Station Unit 1, Attachment E – Severe Accident Mitigation Alternatives Analysis, November. **(FILE: GRANDGULF_ggns-er-attachment-e.pdf)**

Exelon Generation Company, LLC (Exelon). 2001. License Renewal Application, Peach Bottom Atomic Power Station, Appendix E - Environmental Report, Appendix G: Severe Accident Mitigation Alternatives. **(FILE: PEACHBOTTOM_peach_bottom-envg.pdf)**

Exelon Generation Company, LLC (Exelon). 2003a. License Renewal Application, Dresden Nuclear Power Station and Quad Cities Nuclear Power Station, Appendix E - Dresden Nuclear Power Station Environmental Report, Appendix F: SAMA Analysis, January. **(FILE: DRESDEN_SAMA.pdf)**

Exelon Generation Company, LLC (Exelon). 2003b. License Renewal Application, Dresden Nuclear Power Station and Quad Cities Nuclear Power Station, Appendix F – Quad Cities Nuclear Power Station Environmental Report, Appendix F: SAMA Analysis, January. **(FILE: QUADCITIES_qer06.pdf)**

Exelon Generation Company, LLC (Exelon). 2005. License Renewal Application, Oyster Creek Generating Station, Environmental Report, Appendix F: Severe Accident Mitigation Alternatives. **(FILE: OYSTERCREEK_14-ER_(AppE-70-AppF).pdf)**

Exelon Generation Company, LLC (Exelon). 2011a. License Renewal Application, Limerick Generating Station Units 1 and 2, Facility Operating License Nos. NPF-39 and NPF-85, June. **(FILE: lgs-lra-web.pdf)**

Exelon Generation Company, LLC (Exelon). 2011b. Applicant's Environmental Report Operating License Renewal Stage, Limerick Generating Station, Units 1 and 2, Docket Numbers 50-352 and 50-353, License Numbers NPF-39 and NPF-85, June. **(FILES: lgs-er-web.pdf, lgs-er-web-app-a.pdf, lgs-er-web-app-b.pdf, lgs-er-web-app-c.pdf, lgs-er-web-app-d.pdf, lgs-er-web-app-e.pdf,)**

FirstEnergy Nuclear Operating Company (2010). Applicant's Environmental Report – Operating License Renewal Stage: Davis-Besse Nuclear Power Station Unit 1, Attachment E – Severe Accident Mitigation Alternatives Analysis. **(FILE: davis-besse-enviro.pdf)**

Florida Power and Light. 2001. Applicant's Environmental Report – Operating License Renewal Stage: St. Lucie Units 1 & 2, Appendix E – Severe Accident Mitigation Alternatives. **(FILE: stlucieapplenv.pdf)**

Florida Power and Light. 2008. Applicant's Environmental Report – Operating License Renewal Stage, Duane Arnold Energy Center, Appendix F: SAMA Analysis, September. **(FILE: DUANEARNOLD_daec-er.pdf)**

Government Accountability Office (GAO). 2011. Report to Congressional Requesters. Nuclear Regulatory Commission: Oversight of Underground Piping Systems Commensurate with Risk, but Proactive Measures Could Help Address Future Leaks. GAO-11-563, June. **(FILE: d11563.pdf)**

KLD Associates, Inc. (KLD). 2003. Indian Point Energy Center Development of Evacuation Time Estimates, Rev. 0, May. **(FILE: ML063460310.pdf)**

R.E. Luna, H.R. Yoshimura, M.S. Soo Hoo. 2008. Survey of Costs Arising from Potential Radionuclide Scattering Events. WM2008 Conference, February 24-28, 2008, Phoenix, AZ, February. **(FILE: AG-155-2007-005295.pdf)**

Nebraska Public Power District. 2008. Cooper Nuclear Station, License Renewal Application, Appendix E: Applicant's Environmental Report, Attachment E: Severe Accident Mitigation Alternatives Analysis, September. **(FILE: COOPER_cooper-envir-rpt.pdf)**

NextEra Energy Seabrook, LLC (2010). Applicant's Environmental Report – Operating License Renewal Stage: Seabrook Station, Attachment F – Severe Accident Mitigation Alternatives. U.S. NRC Docket No. 50-443. **(FILE: seabrook-er.pdf)**

Nuclear Energy Institute (NEI). 2005. NEI-05-01, Rev. A., Severe Accident Mitigation Alternatives (SAMA) Analysis: Guidance Document. **(FILE: ML060530203.pdf)**

U.S. Nuclear Regulatory Commission (NRC). 1984. Final Environmental Statement Related to the Operation of Limerick Generating Station, Units 1 and 2. Philadelphia Electric Company. Docket Nos. 50-352 and 50-353. Office of Nuclear Reactor Regulation. NUREG-0974. Washington, DC. April. **(FILE: ML11221A206.pdf)**

U.S. Nuclear Regulatory Commission (NRC). 1989. Final Environmental Statement Related to the Operation of Limerick Generating Station, Units 1 and 2. Philadelphia Electric Company. Docket Nos. 50-352 and 50-353. Office of Nuclear Reactor Regulation. NUREG-0974 Supplement. August. **(FILE: ML11221A204.pdf)**

U.S. Nuclear Regulatory Commission (NRC). 2002. Memorandum To: William D. Travers, Executive Director for Operations, From: Ashok C. Thadani, Director, Office of Nuclear Regulatory Research, Subject: Closeout of Generic Safety Issue 172, Multiple System Responses Program, January 22. **(FILE: ML020230055.pdf)**

U.S. Nuclear Regulatory Commission (NRC). 1990. NUREG-1150, Severe Accident Risks: An Assessment for Five U.S. Nuclear Power Plants, December. **(FILES: sr1150v1-intro-and-part-1.pdf, sr1150v1part-2.pdf, sr1150v1part-3.pdf)**

U.S. Nuclear Regulatory Commission (NRC). 2007. Final License Renewal Interim Staff Guidance LR-ISG-2006-03: Staff Guidance for Preparing Severe Accident Mitigation Alternatives Analyses, August. **(FILE: ML071640133.pdf)**

U.S. Nuclear Regulatory Commission (NRC). 2011a. Recommendations for Enhancing Reactor Safety in the 21st Century: The Near-Term Task Force Review of Insights from the Fukushima Dai-Ichi Accident, July 12. **(FILE: ML111861807.pdf)**

Pacific Gas and Electric Company. 2009. Applicant's Environmental Report – Operating License Renewal Stage: Diablo Canyon Power Plant Units 1 & 2, Attachment F – Severe Accident Mitigation Alternatives Analysis. **(FILE: dcpp-er.pdf)**

PPL Susquehanna LLC (Susquehanna). 2006. Susquehanna Steam Electric Station Units 1 & 2 License Renewal Application, Environmental Report, Attachment E: Severe Accident Mitigation Alternatives. **(FILE: SUSQUEHANNA_007_att_c-d-e-f_sses_fer(2).pdf)**

Progress Energy. 2004. Brunswick Steam Electric Plant License Renewal Application, Environmental Report, Appendix F Severe Accident Mitigation Alternatives, October. **(FILE: BRUNSWICK_brunswick_er_appendices_d-f.pdf)**

PSEG Nuclear. 2009. Applicant's Environmental Report – Operating License Renewal Stage, Hope Creek Generating Station, Appendix E, SAMA Analysis, August. **(FILE: hope-creek-envir-rpt.pdf)**

James Shortle, David Abler, Seth Blumsack, Robert Crane, Zachary Kaufman, Marc McDill, Raymond Najjar, Richard Ready, Thorsten Wagener, and Denice Wardrop, Penn State - Pennsylvania Department of Environmental Protection. 2009. Pennsylvania Climate Impact Assessment, Report to the Department of Environmental Protection, June 29. **(FILE: 7000-BK-DEP4252.pdf)**

Southern Nuclear Operating Company. 2000. Licensing Renewal for the Edwin I. Hatch Nuclear Power Plant Units 1 and 2, Appendix D-Attachment F, Severe Accident Mitigation Alternatives, March. **(FILE: HATCH_appendix-d-attach-a-f.pdf)**

Tennessee Valley Authority. 2003. Applicant's Environmental Report Operating License Renewal Stage Browns Ferry Nuclear Power Plant Units 1, 2, and 3, Appendix E – Environmental Report, Attachment E-4, Severe Accident Mitigation Alternatives (SAMA) at the Browns Ferry Nuclear Plant, December. **(FILE: BROWNSFERRY_env-bfn-2.pdf)**

Xcel Energy Corporation. 2005. Monticello Nuclear Generating Plant, Application for Renewed Operating License, Appendix E – Environmental Report, Attachment F: Severe Accident Mitigation Alternatives, March. **(FILES: MONTICELLOPART1_monticello-er3-9.pdf, MONTICELLOPART2_monticello-er3-9.pdf)**

Hourly historical weather data from the Pottstown, Pennsylvania weather station, named KPTW, maintained by the Federal Aviation Administration. **(FILES: KPTW_1999.XLSX, KPTW_2000.XLSX, KPTW_2001.XLSX, KPTW_2002.XLSX, KPTW_2003.XLSX, KPTW_2004.XLSX, KPTW_2005.XLSX, KPTW_2006.XLSX, KPTW_2007.XLSX, KPTW_2008.XLSX, KPTW_2009.XLSX, KPTW_2010.XLSX)**

U.S. Nuclear Regulatory Commission (NRC). 2011b. Safety Evaluation by the Office of Nuclear Reactor Regulation Related to Amendment No. 203 to Facility Operating License No. NPF-39, and Amendment No. 165 to Facility Operating License No. NPF-85, Exelon Generation Company, LLC, Limerick Generating

Station, Units 1 And 2, Docket Nos. 50-352 And 50-353, July 29. (**FILE:
CrystalRiver_Unit3_ER-2008_Progress_Energy.pdf**)

Progress Energy. 2008. Applicant's Environmental Report – Operating License
Renewal Stage: Crystal River Unit 3, Appendix E – Severe Accident Mitigation
Alternatives. U.S. NRC Docket No. 50-302. (**FILE:
Amendment_NRC_SafetyEvaluation_Limerick_July-29-2011.pdf**)