

APPENDIX B References

American National Standards Institute (ANSI)

- , ANSI A58.1, "Minimum Design Loads for Buildings and Other Structures," 1982.
- , ANSI N45.2, "Quality Assurance Program Requirements for Nuclear Facilities," 1977.

American National Standards Institute and American Nuclear Society (ANSI/ANS)

- , ANSI/ANS-2.8, "American National Standard for Determining Design Basis Flooding at Power Reactor Sites," 1992.

American Society of Civil Engineers and Structural Engineering Institute (SEI/ASCE)

- , SEI/ASCE 7-98, "Minimum Design Loads for Buildings and Other Structures," March 2000.

American Society of Mechanical Engineers (ASME)

- , ASME NQA-1-2000, "Quality Assurance Requirements for Nuclear Facility Applications," 2000.

American Society for Testing and Standards (ASTM)

- , ASTM D3740, "Standard Practice for Minimum Requirement for Agencies Engaged in the Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction."
- , ASTM D4945, "Standard Test Method for High-Strain Dynamic Testing of Piles."

American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)

- , "2001 ASHRAE Handbook - Fundamentals," July 2001.

Exelon

- , AP-AA-1000, Revision 0, "Early Site Permit Project Quality Assurance Instructions," Exelon Nuclear: Kennett Square, PA, September 7, 2004.

-----, "Emergency Plan for the Exelon Generation Company, LLC Early Site Permit," Exelon Generation Company, LLC.: Chicago, Illinois, (ADAMS Accession Nos. ML032721599, ML032721600, ML032721601, ML032721602).

Federal Emergency Management Agency (FEMA)

Federal Radiological Emergency Response Plan (1996).

Illinois Compiled Statutes (ILCS)

Division of Nuclear Safety Law, 20 ILCS 2005/2005-1 (amended June 2001),
<<http://www.state.il.us/idns/html/legal/statutes/genadm/enable.htm>>

Illinois Emergency Management Agency Act, 20 ILCS 3305 (amended June 2002),
<<http://www.state.il.us/iema/Laws/IEMAact.htm>>

Illinois Nuclear Facility Safety Act, 420 ILCS 10 (1992),
<<http://www.state.il.us/idns/html/legal/statutes/nucpwr/nucfac.htm>>

Illinois Nuclear Safety Preparedness Act, 420 ILCS 5 (amended June 2002),
<<http://www.state.il.us/idns/html/legal/statutes/genadm/inspa.htm>>

Radiation Protection Act of 1990, 420 ILCS 40 (amended August 2001)
<<http://www.state.il.us/idns/html/legal/statutes/genadm/radpro.htm>>

Illinois State Climatologist Office (ISCO)¹

-----, "Climate of Illinois," <<http://www.sws.uiuc.edu/atmos/statecli/General/Illinois-climate-narrative.pdf>>, (December 1, 2004), (ADAMS Accession No. ML043370319).

-----, "Historical Climate Summary - 111743 Clinton, IL," <<http://www.sws.uiuc.edu/atmos/statecli/Summary/111743.htm>>, (December 3, 2004), (ADAMS Accession No. ML043410077).

-----, "Historical Climate Summary - 112193 Decatur, IL," <<http://www.sws.uiuc.edu/atmos/statecli/Summary/112193.htm>>, (December 1, 2004), (ADAMS Accession No. ML043370363).

-----, "Historical Climate Summary - 115079 Lincoln, IL," <<http://www.sws.uiuc.edu/atmos/statecli/Summary/115079.htm>>, (December 1, 2004), (ADAMS Accession No. ML043370311).

¹Data provided by the Illinois State Climatologist's Office, a part of the Illinois State Water Survey (ISWS) located in Champaign, Peoria, Carbondale, and Chicago, Illinois, and on the web at www.sws.uiuc.edu/atmos/statecli.

----, "Historical Climate Summary - 116711 Peoria WSO Airport, IL," <<http://www.sws.uiuc.edu/atmos/statecli/Summary/116711.htm>>, (December 1, 2004), (ADAMS Accession No. ML043370337).

----, "Historical Climate Summary - 118179 Springfield WSO AP, IL," <<http://www.sws.uiuc.edu/atmos/statecli/Summary/118179.htm>>, (December 1, 2004), (ADAMS Accession No. ML043370356).

----, "Illinois Records," <<http://www.sws.uiuc.edu/atmos/statecli/General/records.htm>>, (December 1, 2004), (ADAMS Accession No. ML043370323).

National Climatic Data Center (NCDC)

----, "Central Illinois Divisional Normals—Temperature, Period 1971-2000," *Climatology of the United States*, No. 85, NCDC: Asheville, North Carolina, June 15, 2002.

----, "Engineering Weather Data CDROM," Version 1.0, NCDC: Asheville, North Carolina, December 23, 1999.

----, "Peoria, Illinois, 2003 Local Climatological Data, Annual Summary with Comparative Data," NCDC: Asheville, North Carolina, 2003.

----, "Severe Thunderstorm Climatology, Total Threat," National Severe Storms Laboratory, <<http://www.nssl.noaa.gov/hazard/totalthreat.html>>, (December 1, 2004), (ADAMS Accession No. ML043370314).

----, "Solar and Meteorological Surface Observational Network (SAMSON) for Central U.S. CDROM," NCDC: Asheville, North Carolina, September 1993.

----, "Springfield, Illinois, 2003 Local Climatological Data, Annual Summary with Comparative Data," NCDC: Asheville, North Carolina, 2003.

----, "Temperature Extremes," <<http://www.ncdc.noaa.gov/oa/climate/severeweather/temperatures.html>>, (November 29, 2004), (ADAMS Accession No. ML043370330).

National Oceanic and Atmospheric Administration (NOAA)

----, Hydrometeorological Report No. 51, "Probable Maximum Precipitation Estimates. United States East of the 105th Meridian," NOAA: Washington, D.C., June 1978.

----, Hydrometeorological Report No. 52, "Application of Probable Maximum Precipitation Estimates - United States East of the 105th Meridian," NOAA: Washington, D.C., August 1982.

----, Hydrometeorological Report No. 53, "Seasonal Variation of 10-Square-Mile Probable Maximum Precipitation Estimates. United States East of the 105th Meridian," NOAA: Washington, D.C., April 1980.

-----, "Tsunami: The Great Waves," NOAA: Washington, D.C., 2002,
<http://www.prh.noaa.gov/itic/library/pubs/great_waves/tsunami_great_waves.html>.

State of Illinois

-----, "Concepts of Operations," *The Illinois Plan for Radiological Accidents (IPRA)*, Volume I, State of Illinois: Springfield, Illinois, May 2001.

-----, "Clinton," *The Illinois Plan for Radiological Accidents (IPRA)*, Volume VIII, State of Illinois: Springfield, Illinois, July 2001.

U.S. Army Corps of Engineers

-----, EM 1110-2-1100 (Revision 1), "Coastal Engineering Manual," Department of the Army: Washington, D.C., July 2003.

-----, EM 1110-2-1411, "Standard Project Flood Determinations," Department of the Army: Washington, D.C., March 1, 1965.

-----, EM 1110-2-1612, "Engineering and Design - Ice Engineering," Department of the Army: Washington, D.C., October 30, 2002.

-----, "HEC-1 Download," U.S. Army Corps of Engineers Hydrologic Engineering Center, 1998,
<<http://www.hec.usace.army.mil/software/legacysoftware/hec1/hec1-download.htm>>,
(September 1, 2004).

-----, "Ice Jam Database," <<http://www.crrel.usace.army.mil/ierd/ijdb/>>, (September 16, 2004).

-----, "Major Dams of the United States," <<http://nationalatlas.gov/damsm.html>>, (July 27, 2004).

-----, "National Inventory of Dams," <<http://crunch.tec.army.mil/nid/webpages/nid.cfm>>, (July 27, 2004).

-----, Technical Manual 5-1300, "Structures to Resist the Effects of Accidental Explosions," Department of the Army: Washington, D.C., November 19, 1990.

U.S. Census Bureau

-----, "Census 1990," U.S. Census Bureau: Washington, D.C., 1990,
<<http://www.census.gov/main/www/cen1990.html>>.

-----, "Census 2000," U.S. Census Bureau: Washington, D.C., 2000,
<<http://www.census.gov/main/www/cen2000.html>>.

U.S. Code of Federal Regulations

-----, *Title 10, Energy*, Part 21, "Reporting of Defects and Noncompliance."

-----, *Title 10, Energy*, Part 50, "Domestic Licensing of Production and Utilization Facilities."

-----, *Title 10, Energy*, Part 52, "Early Site Permits; Standard Design Certifications; and Combined Licenses for Nuclear Power Plants."

-----, *Title 10, Energy*, Part 73, "Physical Protection of Plants and Materials."

-----, *Title 10, Energy*, Part 100, "Reactor Site Criteria."

U.S. Environmental Protection Agency (EPA)

-----, EPA 400-R-92-001, "Manual of Protective Action Guides and Protective Actions for Nuclear Incidents," EPA: Washington, D.C., May 1992.

U.S. Geological Survey

-----, "Clinton, Illinois, 7.5-Minute Quadrangle, Topographic Map," U.S. Geological Survey: Reston, Virginia, 2001.

-----, "Daily Streamflow for the Nation, USGS gauge 05578500, SALT CREEK NEAR ROWELL, IL," <http://waterdata.usgs.gov/il/nwis/nwisman/?site_no=05578500&agency_cd=USGS>, (August 18, 2004).

-----, "Daily Streamflow for the Nation, USGS gauge 05579000, SALT CREEK NEAR KENNEY, IL," <http://waterdata.usgs.gov/il/nwis/nwisman/?site_no=05579000&agency_cd=USGS>, (August 18, 2004).

-----, "Heyworth, Illinois, 7.5-Minute Quadrangle, Topographic Map," U.S. Geological Survey: Reston, Virginia, 2000.

-----, "Maroa, Illinois, 7.5-Minute Quadrangle, Topographic Map," U.S. Geological Survey: Reston, Virginia, 1990.

-----, "Farmer City North, Illinois, 7.5-Minute Quadrangle, Topographic Map," U.S. Geological Survey: Reston, Virginia, 1990.

-----, "Farmer City South, Illinois, 7.5-Minute Quadrangle, Topographic Map," U.S. Geological Survey: Reston, Virginia, 1990.

-----, "LeRoy, Illinois, 7.5-Minute Quadrangle, Topographic Map," U.S. Geological Survey, Reston, Virginia, 1990.

----, "Peak Streamflow for the Nation, USGS 05578500 SALT CREEK NEAR ROWELL, IL," <http://nwis.waterdata.usgs.gov/nwis/peak?site_no=05578500&agency_cd=USGS&format=html>, (August 19, 2004).

----, "U. S. Geological Survey NWISWeb Data for the Nation," <<http://waterdata.usgs.gov/nwis/>>, (September 16, 2004).

----, "Weldon East, Illinois, 7.5-Minute Quadrangle, Topographic Map," U.S. Geological Survey: Reston, Virginia, 1990.

----, "Weldon West, Illinois, 7.5-Minute Quadrangle, Topographic Map," U.S. Geological Survey: Reston, Virginia, 1990.

----, "DeWitt, Illinois, 7.5-Minute Quadrangle, Topographic Map," U.S. Geological Survey: Reston, Virginia, 1979.

U.S. Nuclear Regulatory Commission (NRC)

Inspection Reports

----, Inspection Report 0520007/2004001, "Exelon Generation Company, LLC - NRC Inspection of Applicant and Contractor Quality Assurance Activities Involved with Preparation of the Application for an Early Site Permit," NRC: Washington, D.C., February 20, 2004, (ADAMS Accession No. ML040540622).

NUREG-Series Reports

----, NUREG-0654/FEMA-REP-1, Revision 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," Washington, D.C., November 1980.

----, NUREG-0654/FEMA-REP-1, Revision 1, Supplement 2, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants - Criteria for Emergency Planning in an Early Site Permit Application - Draft Report for Comment," NRC: Washington, D.C., April 1996.

----, NUREG-0654/FEMA-REP-1, Revision 1, Supplement 3, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants - Criteria for Protective Action Recommendations for Severe Accidents - Draft Report for Interim Use and Comment," NRC: Washington, D.C., July 1996.

----, NUREG-0696, "Functional Criteria for Emergency Response Facilities - Final Report," NRC: Washington, D.C., February 1981.

----, NUREG/CR-4831, "State of the Art in Evacuation Time Estimate Studies for Nuclear Power Plants," NRC: Washington, D.C., March 1992.

Regulatory Guides

-----, Regulatory Guide 1.27, "Ultimate Heat Sink for Nuclear Power Plants," NRC: Washington, D.C., January 1976, (ADAMS Accession No. ML003739969).

-----, Regulatory Guide 1.29, Revision 3, "Seismic Design Classification," NRC: Washington, D.C., September 1978, (ADAMS Accession No. ML003739983).

-----, Regulatory Guide 1.59, Revision 2, "Design Basis Floods for Nuclear Power Plants," NRC: Washington, D.C., August 1977, (ADAMS Accession No. ML003740388).

-----, Regulatory Guide 1.70, Revision 3, "Standard Format and Content of Safety Analysis Reports for Nuclear Power Plants - LWR Edition," NRC: Washington, D.C., November 1978, (ADAMS Accession Nos. ML003740072, ML003740108, & ML003740116).

-----, Regulatory Guide 1.78, Revision 1, "Evaluating the Habitability of a Nuclear Power Plant Control Room During a Postulated Hazardous Chemical Release," NRC: Washington, D.C., December 2001, (ADAMS Accession No. ML013100014).

-----, Regulatory Guide 1.91, Revision 1, "Evaluations of Explosions Postulated to Occur on Transportation Routes Near Nuclear Power Plants," NRC: Washington, D.C., February 1978, (ADAMS Accession No. ML003740286).

-----, Regulatory Guide 1.102, Revision 1, "Flood Protection for Nuclear Power Plants," NRC: Washington, D.C., September 1976, (ADAMS Accession No. ML003740308).

-----, Regulatory Guide 1.113, "Accidental and Routine Reactor Releases for the Purpose of Implementing Appendix I," NRC: Washington, D.C., April 1977, (ADAMS Accession No. ML003740390).

-----, Regulatory Guide 1.125, Revision 1, "Physical Models for Design and Operation of Hydraulic Structures and Systems for Nuclear Power Plants," NRC: Washington, D.C., October 1978, (ADAMS Accession No. ML003739388).

-----, Regulatory Guide 1.165, "Identification and Characterization of Seismic Sources and Determination Safe Shutdown Earthquake Ground Motion," NRC: Washington, D.C., March 1997, (ADAMS Accession No. ML003740084).

-----, Regulatory Guide 4.4, "Reporting Procedure for Mathematical Models Selected to Predict Heated Effluent Dispersion in Natural Water Bodies," NRC: Washington, D.C., May 1974, (ADAMS Accession No. ML003739535).

-----, Regulatory Guide 4.7, Revision 2, "General Site Suitability Criteria for Nuclear Power Stations," NRC: Washington, D.C., April 1998, (ADAMS Accession No. ML003739894).

Other NRC Documents

-----, Memorandum from R. N. Gardner, NRC to J. E. Lyons, NRC. Subject: Pre-Application Site Visit to Clinton Nuclear Station to Observe Early Site Permit (ESP) Pre-Application Subsurface

Investigation Activities (Project No. 718), September 9, 2002, (ADAMS Accession No. ML022530396).

-----, NRR Review Standard, RS-002, "Processing Applications for Early Site Permits," NRC: Washington, D.C., May 3, 2004, (ADAMS Accession No. ML040700236).

Other References

Corporate Authors

CH2M Hill, DEL-01-4, Rev. 4, "Project Quality Plan for Exelon Early Site Permit," CH2MHill: Idaho Falls, Idaho, December 2002.

HMM Associates, Inc., "Evacuation Time Estimates for the Clinton Power Station". HMM Associates, Inc.: Bedford, New Hampshire, July 1993, (ADAMS Accession No. ML0409790812)

Interagency Advisory Committee on Water Data. Bulletin 17B , "Guidelines for Determining Flood Flow Frequency," Water Resources Council, U.S. Department of the Interior: Reston, Virginia, 1981.

Platts, "POWERmap Geographic Information System Spatial Data," Platts: Boulder, Colorado, 2004.

Individual Authors

Chow, V. T. *Handbook of Applied Hydrology*, McGraw-Hill: New York, 1964.

Chow, V. T. *Open Channel Hydraulics*, McGraw-Hill: New York, 1959.

Heaps, N. S., "Vertical Structure of Current in Homogenous and Stratified Waters," Ed. K. Hutter, *Hydrodynamics of Lakes*, pp. 153-207, Springer Verlag: New York, 1984.

Jones, K., et al., Technical Report 2002-01, "The Development of a U.S. Climatology of Extreme Ice Loads," National Climatic Data Center: Asheville, North Carolina, December 2002.

Korshover, J., NOAA Technical Memorandum ERL ARL-55, "Climatology of Stagnating Anticyclones East of the Rocky Mountains, 1936-1975," NOAA Environmental Research Laboratories: Silver Spring, Maryland, March 1976.

Linsley Jr., R. K., M. A. Kohler, and J. L. H. Paulhus. *Hydrology for Engineers*, Third Edition, McGraw-Hill: New York, 1982.

Lloyd, O. B. and W. L. Lyke. HA730-K, "Illinois, Indiana, Kentucky, Ohio, and Tennessee," *Ground Water Atlas of the United States*, United States Geologic Survey: Reston, Virginia, 1995, <http://capp.water.usgs.gov/gwa/ch_k/index.html>

Mitchell, W. D., "Unit Hydrographs in Illinois," Illinois Department of Public Works and Buildings, Division of Waterways: Urbana, Illinois, 1948.

Ramsdell, Jr., V. A., "Technical Evaluation Report on Design Basis Tornadoes for the Clinton ESP Site," Pacific Northwest National Laboratories: Richland, Washington, November 9, 2004, (ADAMS Accession No. ML043370309).

Reigel, J. T., J. F. Appleby, and R. W. Schloemer, Hydrometeorological Report 33, "Seasonal Variation of the Probable Maximum Precipitation East of the 105th Meridian for Areas of 10 to 1,000 Square Miles and Durations of 6, 12, 24, and 48 Hours," U. S. Weather Bureau: Washington, D.C., April 1956.

Roberts, W. J. and J. B. Stall, "Lake Evaporation in Illinois," Board of Investigation 57, State Water Survey Division, State of Illinois, Urbana, 1967.

Stall, J. B. Bulletin 51, "Low Flows of Illinois Stream for Impounding Reservoir Design," Illinois State Water Authority, 1964.

Wilson, B. W., "Seiches," *Advances in Hydrosience*, Vol. 8, Academic Press: New York, 1972.