KEVIN R. QUINLAN

U.S. Nuclear Regulatory Commission
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SUMMARY PROFILE

Received Bachelor of Science degree in Meteorology from Millersville University of Pennsylvania in May 2006. Earned Masters Degree in Atmospheric Science from the University of Alabama in Huntsville where research on Hurricane Emily (2005) was completed in May 2008. Currently employed at the U.S. Nuclear Regulatory Commission in the Office of New Reactors, Division of Site and Environmental Analysis. Current work involves reviewing Section 2.3, Meteorology, for new reactor combined license applications and early site permit applications as well as supporting the meteorology/air quality sections of the environmental impact statements.

EDUCATION AND WORK EXPERIENCE

U.S. NUCLEAR REGULATORY COMMISSION — Rockville, MD
Physical Scientist (Meteorologist) — July 2008 - Present

UNIVERSITY OF ALABAMA IN HUNTSVILLE — Huntsville, AL
M.S. Degree Atmospheric Science — Graduated – August 2008

MILLERSVILLE UNIVERSITY — Millersville, PA
B.S. Degree Meteorology — Graduated – May 2006

COMPUTER SKILLS

• PAVAN99 • XOQDOQ • MetQA • ARCON96 • RASCAL
• Earth Systems Data Visual and Modeling (IDL)
• FORTRAN • Interactive Data Visualization (IDV)
• Advanced Weather Interactive Processing System (AWIPS)

WORK RELATED CERTIFICATIONS AND ACCREDITATIONS

Certificate of Completion for NRCs Acquisition Certification and Training Program — July 2009

NRO Employee of the Month — August 2009

NRO Performance Award — 2009, 2010, 2011

Federal Acquisition Certification for Contacting Officer Technical Representative — May 2010

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ATMOSPHERIC SCIENCE WORK EXPERIENCE

U.S. NUCLEAR REGULATORY COMMISSION **Rockville, MD**
Physical Scientist (Meteorologist) July 2008 – Present

Conduct confirmatory analysis work for Standard Review Plan, Section 2.3, Meteorology, for Combined License Applications (COLA) and Early Site Permits (ESP) for multiple applicants. Current application work includes V.C. Summer, Levy County, Turkey Point, Comanche Peak, Shearon Harris, North Anna, Victoria ESP, and PSEG ESP. Section 2.3 of COLA applications includes information pertaining to regional and local climatology, onsite meteorological monitoring programs, and atmospheric dispersion estimates.

UNIVERSITY OF ALABAMA IN HUNTSVILLE **Huntsville, AL**
Graduate Research Assistant August 2006 – May 2008

Conducted research on the upper tropospheric outflow and rainfall patterns for Hurricane Emily (2005) with funding provided through the Tropical Cloud System Processes (TCSP) field experiment. Compiled a time series displaying the rainfall patterns and rain rates for each quadrant of the storm using multiple sources of data. Sources of rainfall information acquired from multiple satellites, such as TRMM, SSMI, and AMSR-E. This information, combined with rapid scan wind measurements from the GOES-11 satellite, provided a unique opportunity to analyze the evolution of Hurricane Emily's intensity changes and rainfall distributions. Environmental factors including shear, interaction with land, and the existence of strong outflow channels all influenced the intensity of the cyclone. Research focused mainly on the upper-tropospheric outflow along moist isentropic surfaces to determine mass flux within a layer. Work included using complex techniques to determine the local cloud top divergence, as well as the total divergence from the center of the storm. Preliminary results were presented at the TCSP/NAMMA conference in Baltimore, MD in May 2007. Complete results were presented at the 28th Conference on Hurricanes and Tropical Meteorology in Orlando, FL in April 2008. Journal article appeared in Monthly Weather Review in March 2010

MILLERSVILLE UNIVERSITY **Millersville, PA**
Undergraduate Student August 2002 – May 2006

Earned Bachelors of Science degree in Meteorology from Millersville University of Pennsylvania. Participated in many meteorological activities such as the Millersville University Student Chapter of the American Meteorological Society (AMS), Campus Weather Service, and the Linked Environments for Atmospheric Discovery (LEAD) outreach program. Lead student technician for Information Technology; in charge of keeping the climatological database up to date and provided statistical data for the Millersville Weather Information Center. Vice-President of the Millersville University AMS; heavily involved in the planning of activities and a successful campus wide fundraising campaign for Hurricane Katrina and Hurricane Rita victims. Worked for the Campus Weather Service as a lead forecaster, while in charge of providing short and long term forecasts, discussions, and broadcasting short term streaming video webcasts. Active in the LEAD project creating a learning module for a community outreach program. Learning module included explaining the Quasi-Geostrophic Omega Equation by using IDV to visualize the vertical motion in a mid-latitude wave.