

Brian Holman

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Madison, MS, 39110

CAREER EXPERIENCE

Entergy Nuclear

Jackson, MS

BWR Core Design

Senior Engineer

2019-Present

- Reload lead for River Bend Station. Independently manage the reload project and schedule, and interface with the vendor and various internal groups to ensure all analyses required for the reload are completed on schedule.
- Perform and review Engineering Evaluations and 50.59 screenings/evaluations for the reload, and support core follow updates and other emergent tasks.

Nuclear Fuel Programs and Oversight

Senior Engineer

2018-2019

Engineer III

2017-2018

- Entergy fleet subject matter expert for spent fuel pool criticality analyses, neutron absorber materials, and dry fuel storage items related to fuel. Performed dry cask loading model updates, annual special nuclear material accounting reports, and Boraflex monitoring calculations. Worked with little supervision.
- Served as the Nuclear Fuels lead for a successful neutron absorbing inserts project (RBS), which included a license amendment request for a change in criticality safety analysis methodology.
- Supervised and directed work for the Summer 2017, 2018, and 2019 interns in my group.
- Mentored new employees in the process of obtaining Engineering qualifications.

BWR Fuels Engineering

Engineer III

2017

Engineer II

2014-2017

Engineer I

June 2012-2014

- Performed core follow calculations, cask loading model updates, annual special nuclear material accounting reports, and Boraflex monitoring calculations, and supported the reload by performing various evaluations.
- Led the Entergy response for NRC Generic Letter 2016-01 and subsequent RAI responses, ensuring a complete and timely response. Helped develop the industry response template.
- Devised and implemented a new method for storing supporting files for calculation and report records.
- Technical lead for a first of a kind BWR full fuel burnup credit criticality safety analysis (PNPS). Successfully navigated the transition to this new analysis method with multiple NRC interactions.
- Supported an approved license amendment request for a new spent fuel pool criticality safety analysis crediting Boraflex (GGNS), and developed the required monitoring calculations.
- Developed a program to compile data from various sources and put them into a usable format for core follow and to process the output from the core follow codes into Excel.

GE-Hitachi Nuclear Energy

Wilmington, NC

Nuclear Analysis

Summer Intern

June 2009-August 2009

- Performed sensitivity studies on manufacturing tolerances.

Bulk Isotope Generation

Summer Intern

May 2008-August 2008

- Created a graphical user interface for a fuel bundle optimization program and developed an isotope tracking program.

EDUCATION

Master of Science - Nuclear Engineering

North Carolina State University

May 2012

Bachelor of Science - Nuclear Engineering

North Carolina State University

May 2010

MBA – Finance Concentration

Mississippi College

Expected May 2022

SKILLS

- Strong verbal and written communication skills.
- Developed and maintained strong working relationships with members of various groups.
- Programming Languages: Visual Basic, Fortran, VBA, DOS/Batch Scripting, Unix Scripting.
- Software: Microsoft Office, Unix environment, Studsvik Core Monitoring System Methods, RACKLIFE, Cask Loader, SNMtrac, Augur, ShuffleWorks, KENO.
- Qualifications: Reactor Engineering Initial Training (SNE course), PAD/50.59, Reload Responsible Engineer, general Engineering qualifications.

LEADERSHIP/ACTIVITIES

- Official Entergy representative for Neutron Absorber Users Group and Cask Loader Users Group.
- NAYGN: Entergy Fleet President 2021-present, Echelon Chapter, Chair 2019-2021, Vice Chair 2013-2018. Helped establish a partnership between HR and NAYGN in 2018 to improve and support the nuclear intern program. Received excellence award for this program.
- Diversity, Inclusion and Belonging council: 2020-present, Game Changer certified.
- Soccer Referee: 2015-present, Youth, High School, College.
- Volunteer to produce tax returns through the Volunteer Income Tax Assistance program.