

NE-24-32534 – Independent Code-to-Code Verification of Aalo-1 Fuel and Core Performance

Aalo Atomix is a reactor developer working on a sodium-cooled microreactor located in Austin, Texas. Their vision is to enable humanity to progress unfettered by its environmental footprint by pioneering the second atomic age.

Aalo Atomix is looking to leverage the learnings of the MARVEL microreactor technology to pioneer an economically attractive, intrinsically safe, liquid-metal-cooled advanced reactor for commercial use. To support this development Aalo is looking for an independent code-to-code verification to support verification as needed by nuclear quality assurance standards.

Aalo will partner with Idaho National Laboratory (INL) to perform independent analyses on fuel performance using the BISON code as well as thermal-hydraulics using RELAP5-3D. This work will support the independent code-to-code verification to support Aalo's future licensing efforts.