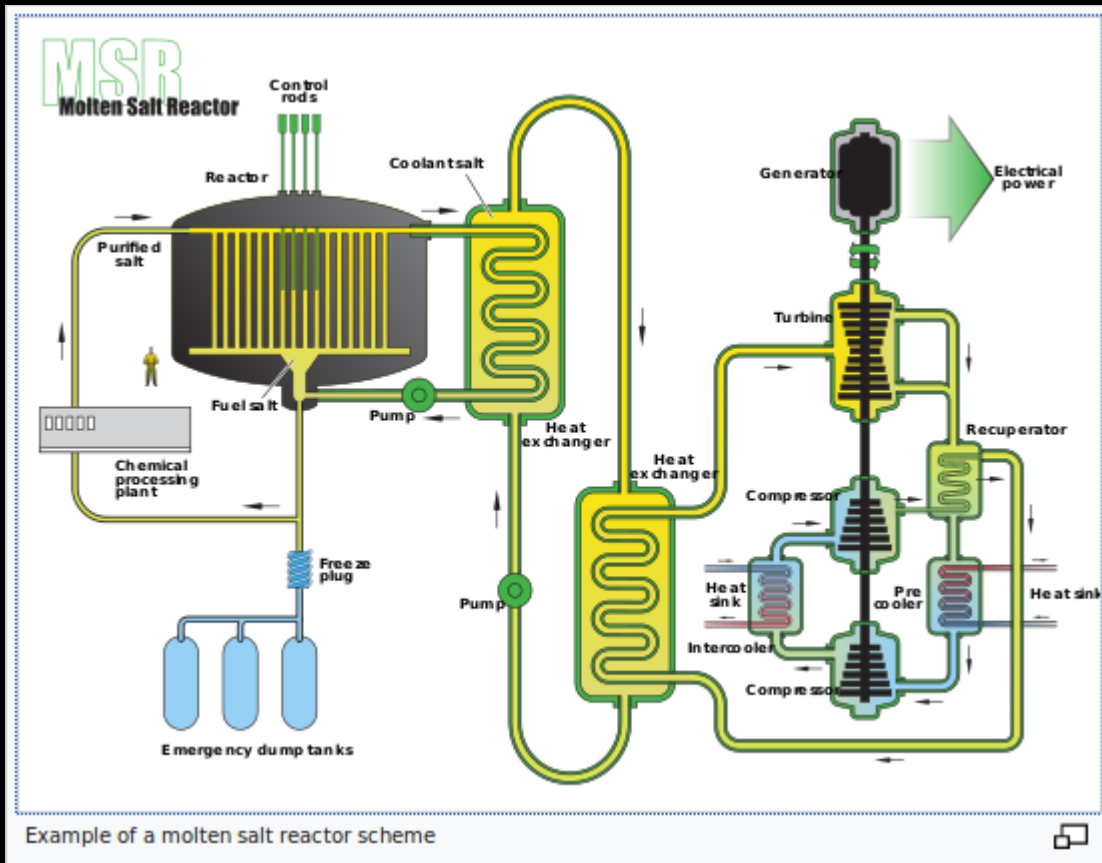
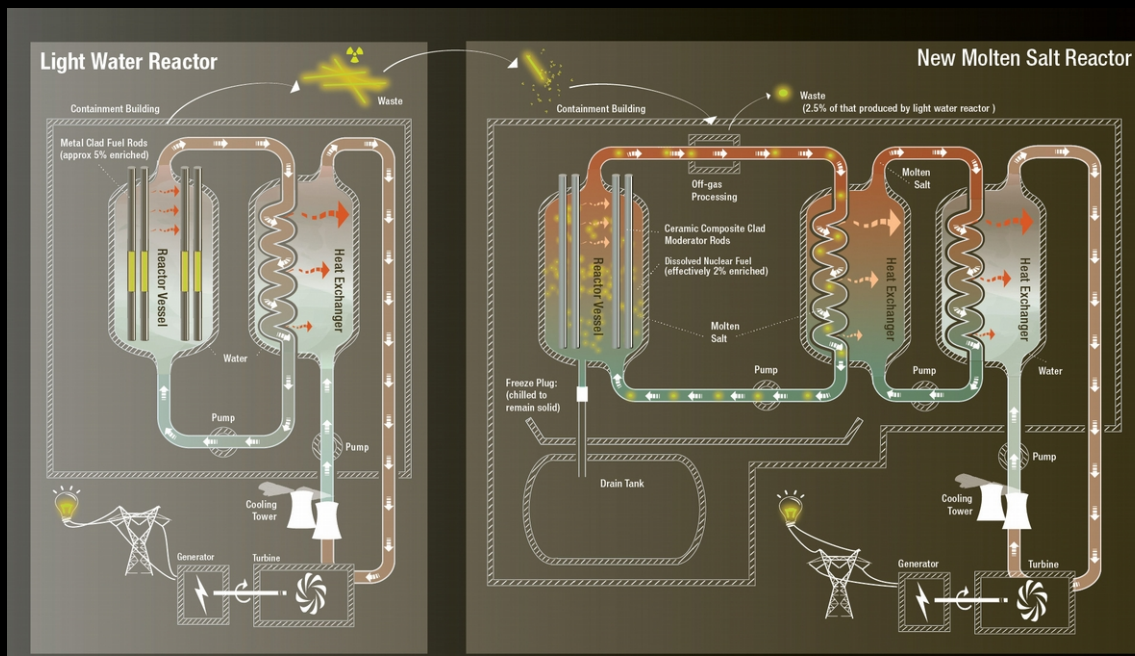


Thorium-molten-salt Reactors, A Next Generation Design

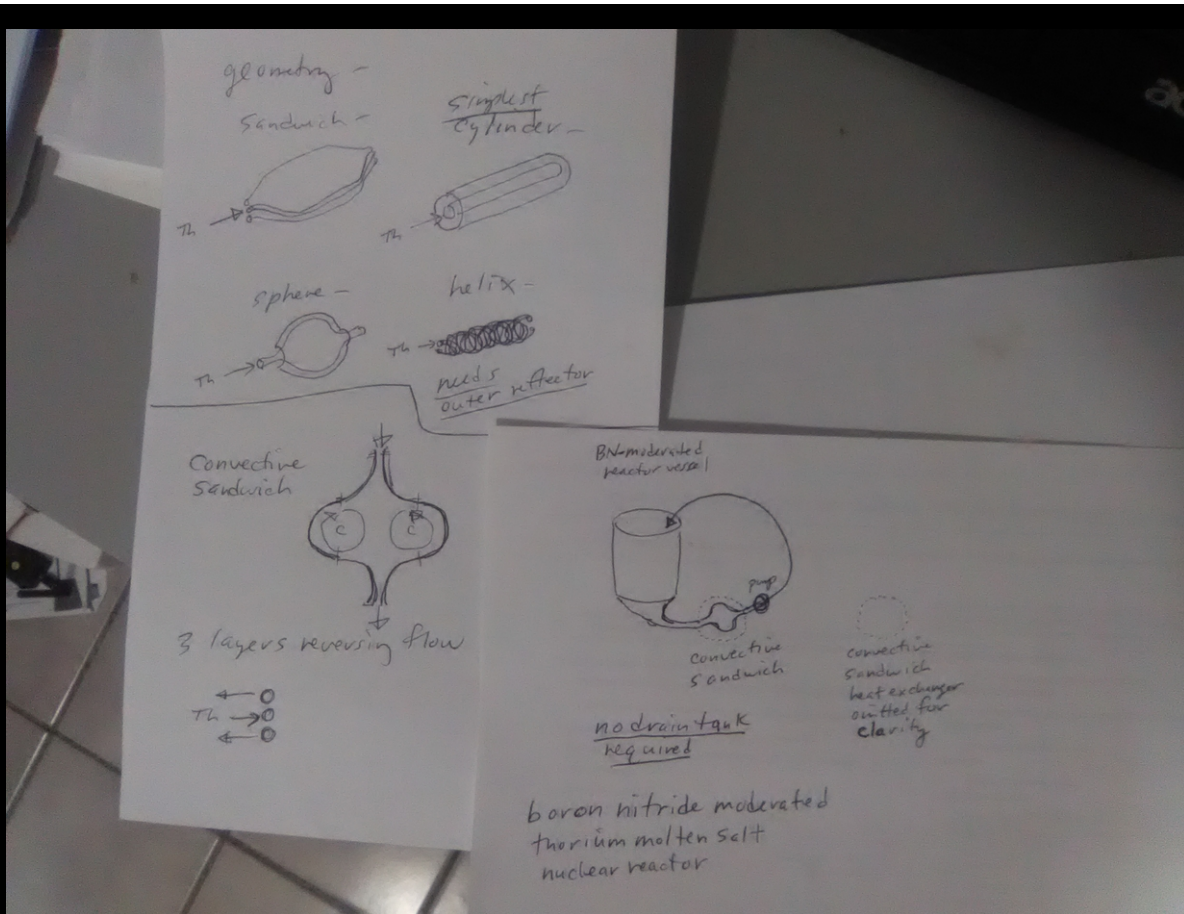
sgm, 2018/AUG/03



a recent design of a molten salt reactor



another newer design



a next-generation design

Liquid fluoride thorium reactor:

https://en.wikipedia.org/wiki/Liquid_fluoride_thorium_reactor

Please skim that article.

"Boron nitride is insoluble in the usual acids, but is soluble in alkaline molten salts and nitrides, such as LiOH, KOH, NaOH-Na₂CO₃, NaNO₃, Li₃N, Mg₃N₂, Sr₃N₂, Ba₃N₂ or Li₃BN₂, which are therefore used to etch BN.[9]"

https://en.wikipedia.org/wiki/Boron_nitride

Notice in my design, no moderator rods nor drain-tank are required because the moderator, boron-nitride, is a computer-controlled as-needed fission-moderator dissolved into the fuel-salt mix. This relative simplicity compared to image 2, right side, means my design is more reliable and safer than any other design so far.