

Global Energy Policy Research | GEPR

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?? ?? · Wednesday, January 22nd, 2020

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??JPDR?????1.25????????????100????????????????170??
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??????????????

4S????????????????????????????????

????????????????????????????4S (Super-Safe, Small and Simple)????4S??(Simple)????????????1?????
????????[?1]?

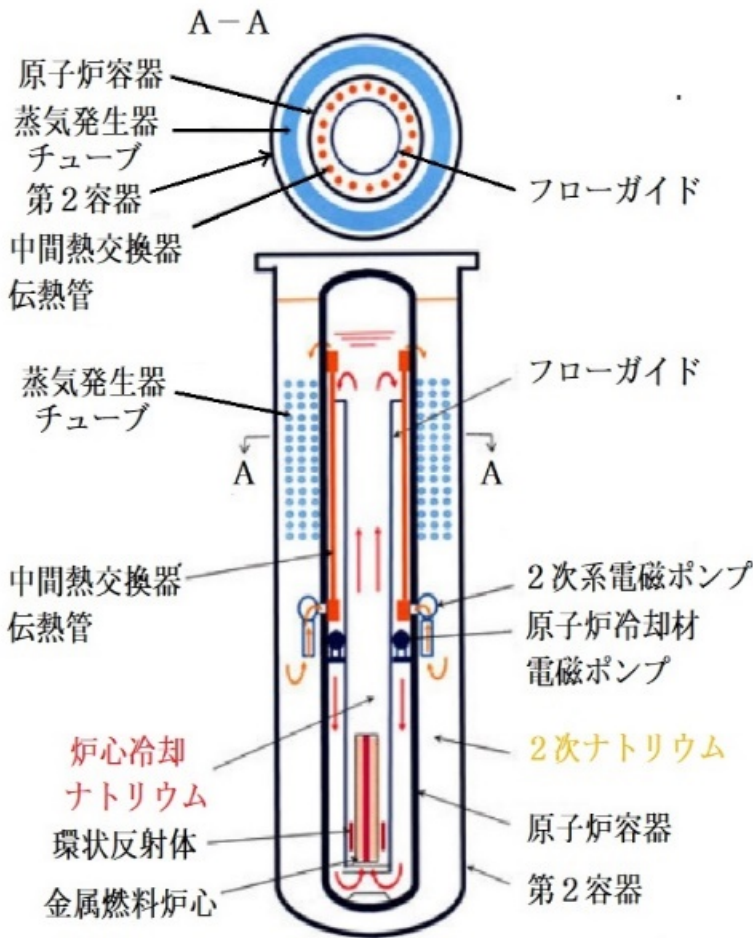


図1 4Sの炉心の概念 (電気出力1万kW)
 米国特許No. 6,944,255 B2(ナトリウム冷却高速炉)

????????????????5????????????????1????????????4????????????????1????????????????????????????3
 ???[?2]?

- ?????????????????????????????????????40????40????????????????????????????????4S????????????
 ?????????????????????????????????????40??
 ??????????
- ???[?3]????????????????
 ???
 ????
- ???
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4S????????????????????????????????????20??
 ?????????????????????????????????

?IMR(Integral Primary System Reactors????????[?6]?)

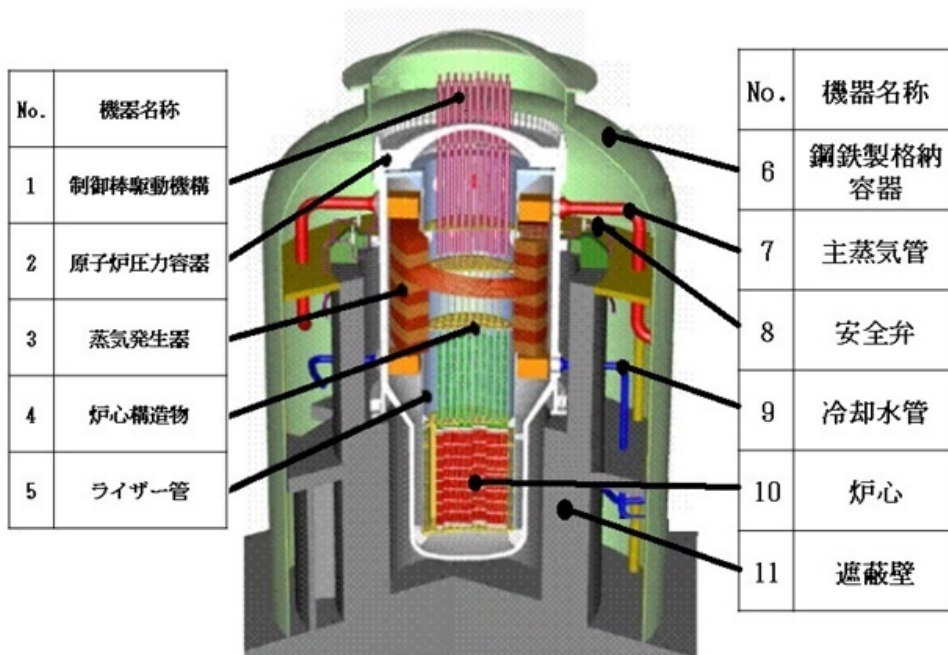


図3 一次系一体型軽水炉 (IMR)

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 ???

?DMS(Double Modular Simplified Reactor????GE????[?7]?)

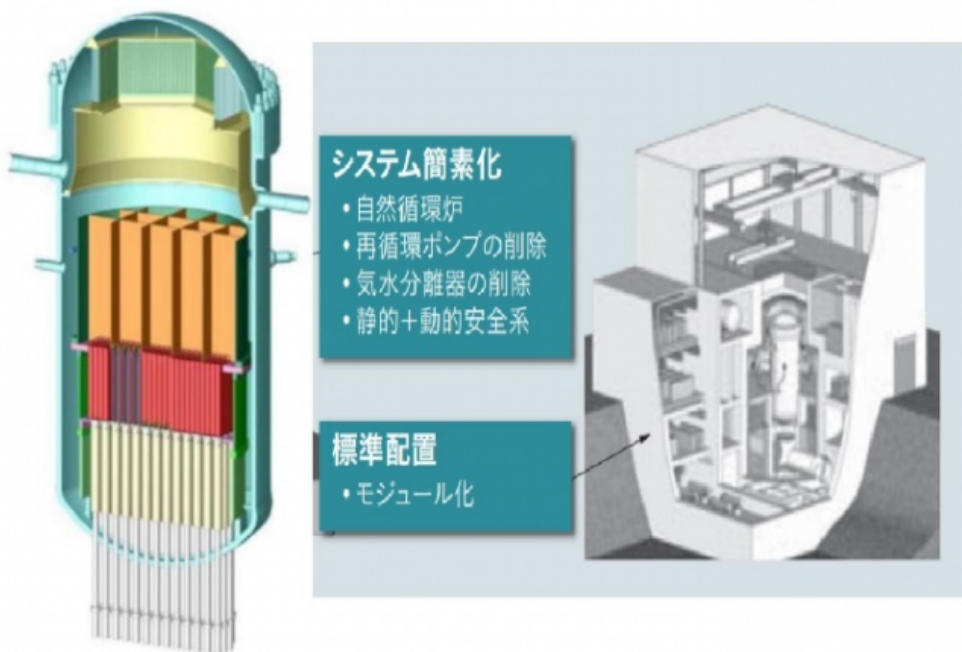


図4 DMS (Double Modular Simplified Reactor)の概念図

????300MWe??SMR?2030??????

?25 ??????????????

??????KLT-40S??????

????????????

???PWR(CAREM-25;????????)

????2.7????????????15?30????????????????

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[?1] ???,????????????????GEPR????????????????????,2018.12.12

[?2] ???? – Wikipedia

[?3] ??,???,????????????????????,2009.7.23

[?4] ???,???,????????Vol.65,No.12(2010),p.50-53

[?5] ?????????????????????TWR????????,2016.3.1

[?6] IAEA?Status Report 95-Integrated Modular Water Reactor (IMR)?,2011.7.21

[?7] ???????26????????????????,??, JANUS,p-5-84

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