

2.5 x 2.5 x 0.01 a 21 cmp 8= 0,005 a 0.0/a 210 Dup Find weight gain 6/6 8= W = 8(14.7) = 9,005cm (100mm) (14.7) W=735 m//2 = Am area aren = 2.5 cm = 6.25 ch = 0.0625 dm2 Dm= Wiaron = 735 mg/m2 · 0,0625 din2 / Dm= 45,9mg Metallic Suel redistribution for metallic fuels can be driven Va Soret dissign up a temperature gradient. For U-27, this phonomenas Trailts in distinct zones of Zr concentration across the radial direction. This is because Zr his different solubilities for the u phases. 4/4 3 distinct zones are present. - U- Y phase with high 2r contact (Sue contacting - U-B phase with low Zr contrat Contails for contaile - U-8/delta with as-solvically cutent (budoingthe classely organisation 4)-Mox Sues have higher heating rates can achieve higher burnup and the Suel assembles can be puredensly packed the to a horagonal packet Structure. Mox fuel, have a higher power density therefore a solin cooling is well for more efficient that trasfer to the solant. This else drives smaller pettet diamoters, and smaller tree lengths for fuel assembles. Kegions: Central Voids - forms from accumulation of voids) pures present alongs thomas grafted.
They forms laticular shape

Columnar Region: - Lenhada pores dectar initial sul nicrostructor is they move leaving elongated allumnar ogran's at temperatures \$ 1800 C. 8/8 Equisco Regioni of the Volta At T< 1800 c the velocity change enough that the grains Sormal undergo significant growth Grains are much larger and Bould be uniform in size As - Sintre legion / At Fool perphay, temperatures are low evange that gain growth is limited, resulting in minimal microstructural changes. RIA - reactivity initiated accident;
This taper of accidents results in a rapid inserve in Supl temp resulting in increased bubble prossures. This higher bubble prossure results in indicated making in the Suel This higher bubble prossure results in indicated making in the Suel This higher bubble prossure results in indicated making in the Suel This higher bubble prossure results in indicated in LOCA - Loss of Coolant Accident.

LOCA material imports principly begin with the chalding since heat is not pulled at the coolant class ignorace, the fuel begins to beat up. will plastically deform, carring obstructions in Flow. Encreery coolant stran ECCS also embrithes the motorials syntially RKA expositives dodding wer heating from Food melting internal goes can create belooking - oxidation of cladding is key Maparture from pullete bailing - med to presure greatural heat.
Shux doesn't exceed cottal heat flux mouth in severe viruse. 4/4 3) Normal operation limits - constraints on extal CHR. Conlide a Hydrogen lutes character is when hydrogen is added to the notestate in a LWR to control the notes selectrophenical Potential.

It is used to reduce integrander SCC. The notes is O getter Prossure buildup: Sission liberates oxygon, soms to with corbon buffs byor, regults in morand pressure

tradiction growth! Feel Forms will shook time Py (hill strink at first, then boyin to shall this models congression to the S.C. layer, Hydrides can form with mino oncks within the clouding beginning at cracks not necessary through the oxide layer that pertiate to the base cladding metal. - cracks not necessary for hydrides concertations are desired by temperature I stress gradients. They generate tourids lover tump, and higher tensile stresses. Hy form Gom corrosion, H can 1/0 Hydridas embrittle the cladding creating a lim of blistony effect, refuse through haddy to early soilure will for Distriction is the rate-limiting /step of collosion of 2r is hater.

This hads to predicting the socialistics rice with districtions, confidences, the Policy-Belath (atio (PBK) is ratio of metal oxide volumeta) the volume per unitof the base metal -15the PBR Salls within 1< PBR CZ, then the oxide conting in a rol is passiveting and protects the base metal from Souther exidetion. 14 solus: 1: by > 2.