Post - Ameling Firsion Gas Release

t= 20 hrs Dxe = (4.00 x10 4) exp(-3/2) cm/s

Gain Size = (0 mm=1087cm T= 1200 K

which f? t= 20 hrs > 72000 S Dxe=1,51 x10 to cm/s

T= Dt = (1.51 x10 to) (72000) = 1.09 x10 S

(10 x10 4) = 0.101

That time! f: (0 Dt - 3 Dt - 3 Dt - 3 Dt (1.51 x10 to))

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The (10 x10 to) 72000 - 5 (1.51 x10 to) (72000)

The (10 x10 to) - 3 du x10 to = 0.011

In-pile fillion gas release f. 20 m Dre = (4.02×10 ) exp ( 27 ) cm/s Grasse = 10 pm = 10 E-4 cm 0xe= 1.51×1040 cm/s f= 10hrs -> TCT-2 f=4/06 - 3 06 f= 4 [(121x10-10)(12000) - 3 (131x10-10)(12000) J= 0.0074 - 1.63=10-3 = 0.00738 Total gay chans released? ignering decay J- 1 reduction = yFt Y= 0,3017 F: Ny of V of = 550 borns p= 4x10 3 0 No : 2.5 × 10 2 atomy 

F: (2.5 ×10°) (4×01) (550×10°) (5.24×10°10) = 2.88×10 5 for see

T.+1 27 = (0.3017) (2.89×10 5 for see) (7+00.) = 6.26×10° Ke

Jet reliand = (0.00718) (6.26×10°) = 4.62×10° Ke adom

Firewar dodding creep w/ om= 240 MPa, T= 550 h Ao: 4×10 4 5-1 6= 4,1×10 - 2,3×10 T Pa 1:5 Q: 2.7 ×105 Fm. (0= 2,714 ×1004  $E_{i3} = A_0 \left(\frac{\sigma_{in}}{G}\right)^{6} e^{-2\pi i} \left(\frac{-2\pi}{27}\right) \qquad (J = 1)$   $E_{i3} = \left(\frac{4\pi i}{G}\right)^{6} \left(\frac{-2\pi}{27}\right)^{5} e^{-2\pi i} \left($ 655 = 3.95×10 5-1 6: - 6 9 on D: 3+10" LHR: 7.5 × 10" 7 202-5 = (2,71420) (7,5-1013) (240) 61= = 4.05×10 5-1 € +01 = 615 + €1 = 4,09 × 10 = 5 -1 @ to dyn = 6.307 x107 5 tot = 0.026 2.620

Estimate axide thickness  $T = 1000 \text{ K} \qquad t = 300 \text{ days}$ Thus fore through linear transition?  $t^*(a) = 16100 \times 10^{-1} \exp\left(\frac{11949}{T}\right) \Rightarrow 295 \text{ days} \Rightarrow 1965$ This form the therefore, the transition?  $\delta(\mu m) = 5 \cdot 1 \exp\left(\frac{-550}{T}\right) = 2.04 \mu m$   $\delta(\mu m) = 5 \cdot 1 \exp\left(\frac{-550}{T}\right) = 2.04 \mu m$   $\delta(\mu m) = 5 \cdot 1 \exp\left(\frac{-550}{T}\right) = 0.0010$   $\delta(\mu m) = 1.49 \times 10^4 \exp\left(\frac{-12500}{T}\right) = 0.0010$   $\delta(\mu m) = 1.49 \times 10^4 \exp\left(\frac{-12500}{T}\right) = 0.0010$ 

To tel change in fact volve for = En + Ep + Epp + EGFP 2+4= 11x10-6 F= 4x10 4 /2= T= 1500 K Tref= 300K Spo= 0.01 \$0= 5 mwo/kg u tido days p(u0): 10.97 0/cc Be todays No: 10.97 fee tog Imil = 2.45 x10 of yee B= FIMA = Ft = (4x10") (1728000) = 0.028 FIMA Eth = (11×10") (1500-300) = 0.0130  $C_{p} = 0 \left( - \left( \frac{B - 0.01}{C_{p} B_{p}} \right) - 1 \right) + C_{p} = 1 \left( \frac{7 \times 150^{\circ} \text{C}}{C_{p} B_{p}} \right)$   $C_{p} = 1 \left( \frac{7 \times 150^{\circ} \text{C}}{C_{p} B_{p}} \right) + C_{p} = 1 \left( \frac{7 \times 150^{\circ} \text{C}}{C_{p} B_{p}} \right)$   $C_{p} = 1 \left( \frac{7 \times 150^{\circ} \text{C}}{C_{p} B_{p}} \right) + C_{p} = 1 \left( \frac{7 \times 150^{\circ} \text{C}}{C_{p} B_{p}} \right)$   $C_{p} = 1 \left( \frac{7 \times 150^{\circ} \text{C}}{C_{p} B_{p}} \right) + C_{p} = 1 \left( \frac{7 \times 150^{\circ} \text{C}}{C_{p} B_{p}} \right)$   $C_{p} = 1 \left( \frac{7 \times 150^{\circ} \text{C}}{C_{p} B_{p}} \right) + C_{p} = 1 \left( \frac{7 \times 150^{\circ} \text{C}}{C_{p} B_{p}} \right)$   $C_{p} = 1 \left( \frac{7 \times 150^{\circ} \text{C}}{C_{p} B_{p}} \right) + C_{p} = 1 \left( \frac{7 \times 150^{\circ} \text{C}}{C_{p} B_{p}} \right)$   $C_{p} = 1 \left( \frac{7 \times 150^{\circ} \text{C}}{C_{p} B_{p}} \right) + C_{p} = 1 \left( \frac{7 \times 150^{\circ} \text{C}}{C_{p} B_{p}} \right)$   $C_{p} = 1 \left( \frac{7 \times 150^{\circ} \text{C}}{C_{p} B_{p}} \right) + C_{p} = 1 \left( \frac{7 \times 150^{\circ} \text{C}}{C_{p} B_{p}} \right)$   $C_{p} = 1 \left( \frac{7 \times 150^{\circ} \text{C}}{C_{p} B_{p}} \right) + C_{p} = 1 \left( \frac{7 \times 150^{\circ} \text{C}}{C_{p} B_{p}} \right)$   $C_{p} = 1 \left( \frac{7 \times 150^{\circ} \text{C}}{C_{p} B_{p}} \right) + C_{p} = 1 \left( \frac{7 \times 150^{\circ} \text{C}}{C_{p} B_{p}} \right)$   $C_{p} = 1 \left( \frac{7 \times 150^{\circ} \text{C}}{C_{p} B_{p}} \right) + C_{p} = 1 \left( \frac{7 \times 150^{\circ} \text{C}}{C_{p} B_{p}} \right)$ Ep = 0.01 (ex, (0.0) -1) = -0.01 ESED = 5.571 ×10 PB = (5.571×100)(0.97)(0.088): 0.0171 EGFP = (1.96×10-01) PB (2800-7) exp (-0.0103 (2800-7)) exp (-17.8 pB) (GED = 2.8 ×10-5 E= 0.0129 - 0:01 + 0.01 11 + 9.8 +10-2 = 0.0903

Given a figure rate of \$= 3 ×10 10 figure and 7= 1250 k,

what is the Doce?

Die 1. 1 ×10 ary (-3.07)

Die 1. 1 ×10 ary (-

602