

Tp-r0-i.txt

ÿWPCß• gñ• • xäÆ'o¼•WšKß•a¿! QP-• '•»G¼{ ••Ê±ß-"Æ,Qo_oÿ
ß'kp±cN%ùm•ð<-Aó\$†p†8S5u±³¼\$••†•`ÊðDjÉ•ÿ"ç•Z ±Óg•æq J!qİ†(•"ÿD'S•ò
%4"Ã~sGÿ:O•÷•z*a••W"†?•§i™,q}´=G•i•@0^G@îè•}ÚÍÃ•Yİ...Đó•îi•a\ÖÖ^â½".çä`
•••¬%`••ÅV[[•İ%°gðf••0B@†æe jÃ- áéjÑæ•¼Ö Ã"áz•â|•™ø}IÝ]p7Æ
*ÿÖ•ZuĐÑ=[•ÿ>Ö"^^¶ÄKü•|x+HE,αpYjêf%•]vSYpE±üfμÆ²¹ ä•••-Đ•ä•\TÖ' kenß'Ã
Sj&••ÅÈZ.ÖjË•°IÒð^Ûεμ@•ÓÂ(AwĐBÛog.š.8• éšó_Nös%k•KÕEI"B<Rß•Öÿ5/•\$áæ••
"VfO•°F=•™ö"!\\&÷<•"fH¶•`Xöš„.Pøw •ØÄhpÂ ¼:0-••d•zûð"haÕš@-•²8túu•|~nl...
Š_•\Îö•],YÉÖ•´"z»"RÈ,¥uŠ-V†`¬f.a...J••[• • • • ¶• •#•
!• Æ• U• N ç• %• • 5• •0• î• ;• U• : •)• •N•
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rkey•Point•December•Exam•50„251/2000„301•Đ•• • • • • Đİ
ñ • ññ•• ñINITIALñ•• ññ•• ññ•• ñTURKEY•POINT•INITIAL•ñ•• ññ•• ñDRAFT•ñ
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• • • • h•,•• • • Đİİİİ1.à•• ••• à005AK3.05•••••••••••••••001Đ•• •
•´•••• • • Đà•• ••• àİUnit.3.was.operating.at.100%.when.a.single.c
ontrol.rod.in.control.bank.D.drops.into.the.core.İThe.SRO.directs.tha
t.the.dropped.rod.be.recovered.İİWhich.one.of.the.following.prevents.t
he.remaining.rods.in.the.control.rod.bank.from.beingİwithdrawn.while.t
he.dropped.rod.is.being.recovered?İİà•• ••• àA.à•• • • àThe
•rod.stop.bypass.is.used.to.block.control.rod.bank.D.outw
ard.movement.Đ•• • • "•ä•• • • Đİà•• ••• àB.à•• • • àThe
•"lift.coil.disconnect".disconnect.switches.are.opened.on.control.bank
D.rodsĐ•• • • L•æ•• • • Đthat.did.not.drop.İİà•• ••• àC.à••
• • àThe.rod.drop.bistable.actuated.when.the.rod.dropped.and.wil
l.prevent.outwardĐ•• • • à0•• • • Đrod.motion.by.control.ban

k.D.ÎÎà... .. àD.à... .. àThe."lift.coil.disconnect".disconne
 ct.switch.is.opened.on.the.dropped.rod.toĐ... .. t.Ä... .. Đe
 lectrically.isolate.it.from.control.bank.D.ÎBÎ3-Ô_... .. ÔONOPÔ_
 Ô-028.3,attachment.1.step.2Îà... .. àAnswer:à... ..
 .. àBĐ... .. ä.4... .. ĐÎ2.à... .. à029EK1.02.....001Đ... ..
 .. æ.î... .. Đà... .. àÎWhich.one.of.the.following.reactivit
 y.values.is.correct.if.Ô_... .. ÔKeffÔ_... .. Ô.is.equal.t
 o.0.95?ÎÎà... .. àA.à... .. à+2.053Đ... .. !\!... .. ĐÎ
 à... .. àB.à... .. à-2.053Đ... .. Ä"...#... .. ĐÎà... ..
 .. àC.à... .. à+0.053Đ... .. |\$Î %... .. ĐÎà... .. àD.à... ..
 .. à-0.053Đ... .. 4&„!'... ..
 . ĐDÎÎReactivity=(Ô_... .. ÔKeffÔ_... .. Ô.-.1)/Ô_... ..
 .. ÔKeffÔ_... .. ÔÎà... .. àAnswer:à... .. àDĐ... ..
 .α)ô\$+... .. ĐÎ3.à... .. à037AA2.3.....001Đ... .. \+~&
 -... .. Đà... .. àÎFollowing.an.alarm.on.R-3-19,S/G.Ô_... .. Ô
 blowdownÔ_... .. Ô.liquid.activity.with.the.reactor.at.normal.op
 erating temperatures.and.pressures.at.power,which.one.of.the.followin
 g.should.an.operator.expect?Î.....Îà... .. àA.à... ..
 . àDAM-1.S/G.Ô_... .. ÔsteamlineÔ_... .. Ô.monitor.to.decr
 ease.over.time.Đ... .. "/ø*2... .. ĐÎà... .. àB.à... .. àDAM
 -1.S/G.Ô_... .. ÔsteamlineÔ_... .. Ô.monitor.to.increase.o
 ver.time.Đ... .. `1°,4... .. Đ†à... .. àC.à... .. àR-3
 -15,Air.ejector.radiation.monitor.to.decrease.over.time.Đ... ..
 .°. ĐÎà... .. àD.à... .. àR-3-15,Air.ejector.and.DAM
 -1.S/G.steam.line.radiation.monitor.indicationsĐ... .. °... .. Đr
 emain.constant.over.time.Đ... .. `1°,4... .. Đ†BÎ3-Ô_... ..
 .. ÔEOPÔ_
 Ô-E-3Îà... .. àAnswer:à... .. àBĐ... .. .E.Û
 ĐÎ4.à... .. à055EK3.02.....001Đ... .. D."... .. Đà
 àÎUnit.3.experienced.a.station.blackout.and.operators.have.i
 mplemented.3-Ô_... .. ÔEOPÔ_... .. Ô-Ô_... .. ÔECAÔ_
 Ô-0.0, Loss.of All.AC.Power...The.3A1.and.3A2.Battery.cha
 rgers.are.inoperable.ÎÎStep.1.of.Attachement.3,125V.DC.Bus.Shedding,
 must.be.performed.within.....Îto.ensure.the.3A.vital.battery.wil
 l.supply.vital.loads.for.a.minimum.of.....ÎWhich.one.of.the.fo
 llowing.combinations.accurately.completes.the.above.statement?ÎÎà... ..
 àA.à... .. à30.minutes,..2.hoursĐ... .. Û,... .. ĐÎ
 à... .. àB.à... .. à30.minutes,..4.hoursĐ... .. ".ä... .. ĐÎ
 à... .. àC.à... .. à60.minutes,..2.hoursĐ... .. L.æ... .. ĐÎ
 à... .. àD.à... .. à60.minutes,..4.hoursĐ... .. T... .. Đc
 ÎREFERENCE:à... .. à3-Ô_... .. ÔEOPÔ_... .. Ô-Ô_
 ÔECAÔ_... .. Ô-0.0,CAUTION.before.Step.24.BasisĐ... ..
 ~.è... .. ĐÎà... .. àAnswer:à... .. àCĐ... .. P... ..
 ĐÎ5.à... .. à074EK1.05.....001Đ... .. X... .. Đà
 àÎUnit.3.has.just.been.tripped.from.100%.power.due.to.a.stuc
 k.open.Ô_... .. ÔpressurizerÔ_... .. Ô.safety.valve...TheÎ
 crew.has.just.tripped.the.reactor.coolant.pumps.due.to.loss.of.Ô_... ..
 ÔsubcoolingÔ_... .. Ô...Ô_... .. ÔPressurizerÔ_
 Ô.level.isÎ70%..How.would.Ô_... .. ÔRVLMSÔ_... ..
 .. Ô.respond.when.saturation.conditions.are.reached.in.the.Ô_... ..
 .. ÔRCSÔ_... .. Ô?ÎÎà... .. àA.à... .. àDecrease,t

hen increase. Ð . . . 0 . . . Ð ì à à B. à à Dec
 rease rapidly. Ð è ! 8 . " . . . Ð ì à à C. à à Inc
 rease, then decrease. Ð # ð . \$. . . Ð ì à à D. à
 . à Increase rapidly. Ð X % " & . . . Ð B ì à à Answer : . à . .
 à B Ð ' ` " (. . . Ð ì 6 . à à 059K1.04
 . . 001 Ð È (. \$ * . . . Ð à à Ì Unit 3 is operating at 100 %
 power when the co
 ntrolling S/G pressure transmitter fails low on the Ì 3A S/G. Ì Which one
 of the following describes the effect this will have on the indicated
 steam flow of the Ì controlling channel and the initial 3A Ò
 . . Ò FW Ò Ò Control Valve, Ò Ò FCV Ò
 . Ò -478, response? Ì à à A. à à Indicated steam flo
 w will decrease. . . The Ò Ò FCV Ò Ò will open. Ð .
 " / ø * 2 . . . Ð ì à à B. à à Indicated steam flo
 w will decrease. . . The Ò Ò FCV Ò Ò will close. Ð
 ` 1 ° , 4 . . . Ð ì à à C. à à Indicated steam flo
 w will increase. . . The Ò Ò FCV Ò Ò will open. Ð .
 ° . . . Ð ì à à D. à à Indicated steam flo
 w will increase. . . The Ò Ò FCV Ò Ò will close. Ð
 h Ð B ì à à Answer : . à à B Ð p .
 . . . Ð ì 7 . à à 015/017AK2.10 001 Ð Ø (. . . .
 . Ð à à Ì Per 3- Ò Ò ONOP Ò Ò -041.1, " Rea
 c
 tor Coolant Pump Off-Normal, " which one of the following requires Ì stop
 ping an Ò Ò RCP Ò Ò ? Ì à à A. à
 . à Ò Ò RCP Ò Ò horizontal motor vibrations equal
 10 MILS Ð \$. t . . . Ð ì à à B. à à Ò .
 Ò RCP Ò Ò vertical shaft vibrations equal 10 MI
 LS Ð Ü . , . . . Ð ì à à C. à à Ò
 . . . Ò RCP Ò Ò stator winding temperature equals 225 degrees
 Ð " . ä . . . Ð ì à à D. à à Ò Ò RCP
 Ò Ò pump bearing temperature equals 200 degrees Ð
 . L æ Ð Ì Ì Reference foldout page for 3- Ò Ò ONOP Ò .
 Ò -041.1 Ì A limit is 5 MILS Ì B limit is 20 MILS Ì C Temperature 1
 imit is 248 degrees Ì D Temperature limit is 225 degrees. Ì à à A
 nswer : . à à A Ð , . | . . . Ð ì 8 . à à 024AK2.03 .
 001 Ð ä . 4 . . . Ð à à Ì Following an uncontr
 olled increase in the source range count rate while Ò Ò su
 bcri
 tical Ò Ò . . . Operators Ì enter 3- Ò Ò ONOP Ò
 . . . Ò -046.1, " Emergency Ò Ò Boration Ò Ò " a
 nd establish the following conditions: Ì Ì . . . C . FI-3-110, Emergency Bora
 te Flow, indicates 64 Ò Ò GPM Ò Ò . Ì . . . C . FI-3-
 122, Charging Line Flow, indicates 40 Ò Ò GPM Ò
 . Ò . Ì Which one of the following describes the appropriate procedural
 actions to be taken per Ì 3- Ò Ò ONOP Ò Ò -046.1? Ì
 Ì à à A. à à Start an additional Boric Acid Pump and ali
 gn valves as necessary to establish Ð X % " & . . . Ð emergency
 Ò Ò boration Ò Ò flow. Ì à à B. à
 à Open CV-3-310B, Loop C Charging Isolation Valve, to increas
 e emergency Ð Ì ' < #) . . . Ð Ò Ò boration Ò

g.Pump.and.align.valves.as.necessary.to.establishD... ..*D%
, . . Demergency.Ô_ ÔborationÔ_ Ô.flow.Îîà..
... àD.à... ` . àAlign.Charging.Pump.Suction.to.the.Ô_ Ô
RWSTÔ_ Ô.D... ..-d(/ . . DÎCÎà.. ... àAnswer:à.
. . . . àCÐ.."/ø*2 . . DÎ9.à.. ... àW/E11EA2.2.....
..001Ð.. . . .`1°,4 . . Ðà.. ... àÎWhile.in.Ô_ ÔEOP
Ô_ Ô-Ô_ ÔECAÔ_ Ô-1.1,"Loss.of.Eme
rgency.Coolant.Ô_ ÔRecirculationÔ_ Ô"operator
s.have.successfullyïrestored.Ô_ ÔrecirculationÔ_
. . Ô.capability..What.is.the.proper.action.at.this.point?Îîà.. ...
àA.à... . àContinue.with.this.procedure.until.the.procedure.tr
ansitions.out.to.anotherÐ.. . . .p... . . Ðprocedure.Îîà.. ... àB
.à.. . . . àSuspend.performance.of.Ô_ ÔEOPÔ_
. . Ô-Ô_ ÔECAÔ_ Ô-1.1.and.return.to.the.proc
edure.and.step.inÐ.. Ðeffect.Îîà.. ... àC.à.
. . . . àGo.to.Ô_ ÔEOPÔ_ Ô-E-1,"Loss.of.Rea
ctor.or.Secondary.Coolant,".Step.1.Ð.. . . .H.~ ÐÎà.. . .
. . àD.à
. . . . àGo.to.Ô_ ÔEOPÔ_ Ô-ES-1.3,"Transfer
.to.Cold.Leg.Ô_ ÔRecirculationÔ_ Ô."Ð.. . .
. . P.. . . . ÐBÎîREF:..Ô_ ÔEOPÔ_ Ô-Ô_
. . ÔECAÔ_ Ô-1.1.Caution.prior.to.Step.1.ÎÔ_ ÔS
OURCE:EBÔ_ Ô#69023320304Îîà.. ... àAnswer:à.. . . àB
Ð.. . . L.æ.. . . ÐÎ10.à.. ... àG2.4.8.....001Ð.. . .
...T.. . . Ðà.. ... àÎWhich.one.of.the.following.statements.descri
bes.the.application.of.NOTES.and/or.CAUTIONSïfound.within.the.body.of.
an.Ô_ ÔNOPÔ_ Ô.(for.example,prior.to.step.4.
of.a.20.step.Ô_ ÔNOPÔ_ Ô)?Îîà.. ... àA.à..
. . . . àCAUTIONS.apply.to.the.step.which.they.precede.and.for.the.r
emainder.of.theÐ.. . . .P.. . . . Ðprocedure,unless.otherwise.state
d.Îîà.. ... àB.à.. . . . àCAUTIONS.only.apply.to.the.step.whi
ch.they.precede,unless.otherwise.stated.Ð.. . . .ä.4.. . . ÐÎ
à.. ... àC.à.. . . . àNOTES.apply.to.the.step.which.they.pr
ecede.and.for.the.remainder.of.theÐ.. . . .æ.ï.. . . . Ðprocedure
,.unless.otherwise.stated.Îîà.. ... àD.à.. . . . àNOTES.conti
nue.to.apply.after.Ô_ ÔtransitioningÔ_ Ô.to.an
other.procedure,unlessÐ.. . . .0.. . . . Ðotherwise.stated.ÎAÎîREF:
.Ô_ ÔADMÔ_ Ô-211,step.5.5.4,ïpage.15,.8/23/9
5ÎSOURCE:..Ô_ ÔTPÔ_ Ô.Q.69023200128/Q242.(Ô_
. . . . ÔADMÔ_ Ô-211.Bank)ïBank.Q.modified.slightly.to.m
ake.it.clear.that.answer"C".is.not.correct.(procedure.says.that.aïnot
e.that.precedes.the.first.high-level.step.apply.to.the.whole.procedure
).Îîà.. ... àAnswer:à.. . . àAD.. . . .ï'<#) ÐÎ11.à..
. . . . à022K2.01.....001Ð.. . . .æ)ð\$+ Ðà.. ... àÎUnit
.3.has.experienced.a.simultaneous.LOOP/Ô_ ÔLOCAÔ_
. . Ô.ÎîWhich.one.of.the.following.describes.the.response.of.the.Emerg
ency.Containment.Cooler.(Ô_ ÔECCÔ_ Ô)ïFan.moto
rs?Î.....Îîà.. ... àA.à.. . . . àTwo.Ô_ ÔECCs
Ô_ Ô.start.immediately.upon.receipt.of.the.SI.signal.Ð..

" /ø*2 . . Ðİà.. . . àB.à.. ` . àTwo.Ô_ . . .
 ÔECCsÔ_ Ô.start.when.sequenced.on.by.the.Ô_ Ôs
 equencersÔ_ Ô.Ð.. `1°,4 . . . Ð‡à.. àC.à.
 àIf.the.3B.Ô_ ÔEDGÔ_ Ô.fails.to.star
 t,.Ô_ ÔECCsÔ_ Ô.3A.and.3B.will.be.powered.from
 .the.3A.Ô_ ÔEDGÔ_ Ô.Ð.. °. Ðİ
 à.. àD.à.. àIf.the.3A.Ô_ ÔEDGÔ_
 Ô.fails.to.start,.Ô_ ÔECCsÔ_ Ô.3B.and.3C.will
 .be.powered.from.the.3B.Ô_ ÔEDGÔ_ Ô.Ð..
 .h.,. ÐBÌÏREFERENCE:à.. àLogic.Sheet.5613-T-L1,.Sheet.12Ð
 ü.L.. Ðà.. àAnswer:à.. àBD.. Ø
 (. Ðİ12.à.. à061K6.01.....001Ð.. à.. Ðà
 àİ"A".Ô_ ÔAFWÔ_ Ô.pump.is.out.of.ser
 vice...Operators.have.realigned.the"C".Ô_ ÔAFWÔ_ . . .

Page 5

FP0_ 0 purification loop. 11a àC.à àFlow
 w must be greater than 200.0_ 0 GPM0_ 0 because
 of the Minimum Developed Head. 0 1. *1 11a àD.à .
 àFlow must be greater than 200.0_ 0 GPM0_
 0 because it must pass through the 0 00+3 00_
 0 demineralizer0_ 0 in the 0_ 0 SFP0_
 0 purification loop. 0 1°,4 00_ 0 B
 13/4-OP-033.P&L.4.10 System Description No. 041 Fuel Pool Cooling, Pur
 ification and Ventilation System also System Description No. 0
 07 Reactor Coolant System/ 1 Transferring Water from the SFP to the RW
 ST 1 Water can be transferred from the SFP to the RWST via the SFP puri
 fication loop. Flow is limited to 100 GPM since it must pass through
 the demineralizer. 1 Pump specifications Flow, GPM 2300 Minimum Develo
 ped Head, ft H2O 125 1111a àAnswer:à àBD
 114.à à005K5.09 001D p.À .
 11a àWhich one of the following describes why the disch
 arge of the HHSI pumps is realigned 12 hours after a large break LOCA?
 11a àA.à àThis is done to prevent the possibi
 lity of boron precipitation due to the 0 1/4 0 concentra
 ting effects experienced during a cold leg break. The HHSI pumps are
 then run for hot leg recirculation. 11a àB.à àThi
 s is done to prevent the possibility of boron precipitation due to the
 0 1/4 0 concentrating effects experienced during a hot le
 g break. The HHSI pumps are then run for cold leg recirculation. 1
 1a àC.à àThis is done to prevent the loss of HHSI pu
 mp NPSH. The HHSI pumps then 0 0 take suction from
 the containment sump and are run for hot leg recirculation. 11a
 àD.à àThis is done to prevent the loss of HHSI pump NPSH.
 The HHSI pumps then 0 0 take suction from the con
 tainment sump and are run for cold leg recirculation. 1A. 11EOP-E-1 ste
 p 32 and BD-EOP-E-1 page 50 During the recirculation phase of ECCS ope
 ration which would normally only occur after a large break LOCA, the p
 referred alignment is RHR pumps delivering flow from the recirculation
 sumps to the RCS with the SI pumps secured. If adequate RHR flow can
 not be verified, then the higher head SI pumps are used with suction t
 aken from the discharge of the RHR pumps. The RHR pumps will still be
 taking their suction from the containment recirculation sumps. 11Twelv
 e (12) hours after the event (large break LOCA), the discharge of the
 SI pumps is realigned to loops A and B hot legs. T
 his is done to prevent the possibility of boron precipitation due to t
 he concentrating effects experienced during a cold leg break. The SI
 pumps are then run for hot leg recirculation. 11a àAnswer:à .
 àAD 0-@)0 115.à àG2.1.9
 001D 1/0*2 11a à 00+
 3 11Which one of the following defines the personnel who, under 0-A
 DM-200, "Conduct of 11a àOperations," have the authority to remov
 e personnel from the control room? 11Only the NPS and: 11a àA.à
 àANPSD 1. L 11a àB.à àANP
 S, RCO 0 11a àC.à àANPS, RCO, .
 NWED 1. 1/4 11a àD.à àANPS, RCO, .
 NWE, Shift Technical Advisor 0 \$t 11REF:0-ADM-2

00.step.5.6.18.8Ià... àAnswer:à... àCĐ... .".ä.
. . . ðI16.à... à008A2.02.....001Đ... .L.æ... . . Đà
... àIIn accordance with 3-ONOP-030, "Component Cooling Water Malfunction," which
one of the following IMMEDIATE ACTIONS must be performed if CCW surge tank level is decreasing and the CCW Surge Tank Makeup Valve, MOV-3-832, is fully open?I...Ià... àA.à... àTrip Reactor and stop all RCPs.Đ... .t.Ä... . . ðIà... àB.à... àDispatch an operator to tie together the CCW headers.Đ... .,|.
. . . ðIà... àC.à... àOperate the running charging pump at minimum speed.Đ... .ä.4... . . ðIà... àD.à... àDispatch an operator to split the CCW header.Đ... .æ.i... . . ĐA
REFERENCE.....I3-ONOP-030, Step 1.&2.immediate.actionsINRC.Exam.Bank--1994/02/28--added correct answer per revision 10/1/98Ià...
... àAnswer:à... àAD... .è!8." . . ðI17.à... à011A4.01.....001Đ... . #ð.\$. . Đà... àIWith reactor power at 50% and the pressurizer level control transfer switch in Position III (LTİ461/460), a failure causes the following plant events to occur in the given sequence (assume no operator actions are taken):I11...Charg
ing flow reduced to minimum.I2...Pressurizer level decreases.I3...Let down secured and Pressurizer heaters off.I4...Pressurizer level increases until high level trip.IIWhich one of the following failures occurred?Ià... àA.à... àLevel transmitter 460 failed low.Đ... .I.*1 . . ðIà... àB.à... àLevel transmitter 460 failed high.Đ... .,00+3 . . ĐĐ... .`1°,4 . . Đà... .
. àC.à... àLevel transmitter 461 failed low.Đ... .°. . . ðIà... àD.à... àLevel transmitter 461 failed high.Đ... .h... . . ĐDI5610-T-D-15.Sht.1Ià... àAnswer:à...
. àDĐ... .ü.L... . . ðI18.à... à035K3.01.....001Đ... . .`..... . . Đà... àIWhich one of the following is indicative of an impending loss of natural circulation flow?Ià... àA.à... àRCS delta T at 57 degrees F and increasingĐ... .\$.t . . . ðIà... àB.à... àRCS subcooling at 42 degrees F and increasingĐ... .Ü,... . . ðIà... àC.à...
. àSource range detector counts decreasingĐ... .".ä... . . ðIà... àD.à...
. àRCS cold leg temperature slowly decreasingĐ... .L.æ... . . ĐA
ISurry exam 1999.IIB...Correct if subcooling was at 30 degree F or belowIC...Correct if counts were increasingID...Correct if steam generator pressures were not respondingIà... àAnswer:à... àAD...
. .P... . . ðI19.à... à033AK3.01.....001Đ... .
...X... . . Đà... àIA reactor startup is in progress with Source Range counts indicating 3.7.E+4.cps on N-31 and IN-32...Intermediate Range Instrument N-35 indicates 3.E-11 and N-36 indicates 1.E-11...What actions should be performed and why?Ià... àA.à... àEnter the ONOP for Intermediate Range Instrument malfunction, maintain powerĐ... .0 . . . Đ<P-6, N-35 is undercompensated.IIà...
... àB.à... àEnter the ONOP for Intermediate Range Instrument malfunction, maintain powerĐ... .Ä"## . . Đ<P-6, N-36 is failed low.IIà... àC.à... àContinue the startup, power

•is•too
 •low•to•determine•if•any•Intermediate•Range•Detector•has•failed.ÏÏà••• àD.à•• • àEnter•the•ONOP•for•Intermediate•Range•Instrument•malfunction,•continue•the•startup,•adequate•protection•and•monitoring•is•available•with•one•Intermediate•Range•detector.ÏÏB•SD•004Ïà••• àAnswer:•à•• ,
 •• àB•• • \+~&- •• Ì20.à•• •• àW/E03EA2.1.....001•
 •• •• -d(/ •• à•• •• àÏThe•following•conditions•exist•on•Unit•3:Ï•••Ï••C••Reactor•trip•and•SI•have•automatically•actuated.Ï••C••Operators•are•preparing•to•transition•from•EOP-E-1."Loss•of•Reactor•••••`1°,4 •• Ì•••••or•Secondary•Coolant."Ï••C••RCS•pressure•is•stable•at•700•psig.Ï••C••All•S/G•pressures•are•stable•at•900•psig.Ï••C••RWST•level•is•310,000•gallons•and•decreasing•slowly.Ï••C••Containment•pressure•peaked•at•10•psig•and•is•decreasing.ÏÏWhich•one•of•the•following•identifies•the•correct•procedure•to•which•operators•will•transition•to?ÏÏà••• àA.à•• • àES-1.1••"SI•Termination"•••à•• • Ìà•• •• àB.à•• • àES-1.2••"Post•LOCA•Cooldown•and•Depressurization"•••H.~•• • Ìà•• •
 •• àC.à•• • àES-1.3••"Cold•Leg•Recirculation"•••P•
 •• • Ìà•• •• àD.à•• • àES-1.4••"Hot•Leg•Recirculation"•••
 ••••• •• ÌREF:••E-1•Step•19.bÏà••• àAnswer:•à••
 •• àB•• • (x•• • Ì21.à•• •• à007AK2.03.....001•
 •• •• à0•• •• à•• •• àÏGiven•the•following•plant•conditions:
 :ÏÏ-••The•reactor•tripped•45•seconds•ago.ÏÏ-••Turbine•stop•valves•are•closed.ÏÏ-••Megawatt•meter•at•zero•output.ÏÏ-••Mid•and•East•GCBs•are•closed.ÏÏWhich•one•of•the•following•states•the•condition•of•the•generator•and•the•correct•operator•response?ÏÏà••• àA.à••
 • àGenerator•is•acting•as•a•load•on•the•grid,•depressurize•steam•lines•and•MSRs.Ì•• •• Ìà•• •• àB.à•• • àGenerator•is•motoring,•depressurize•steam•lines•and•MSRs.Ì•• •• è!8.
 " •• Ìà•• •• àC.à•• • àGenerator•is•motoring,•actuate•the•Emergency•Gen•Bkr•Trip•Switch.Ì•• •• #•\$ •• Ìà•• •• àD.à•• •
 • àGenerator•exciter•has•failed,•locally•open•3A•&•3B•MG•set•supply•breakers.Ì•• •• X%” & •• ÌREFERENCE.....Ï3-EOP-E-0•step•2.C•RNO•Ï1994/02/28•Turkey•Point•3•&•4.Ïà••• àAnswer:•à•• •• àC•
 •• •• *Ì%, •• Ì22.à•• •• àW/E13G2.3.9.....001•
 •8,^'. •• à•• •• àÏWhich•ONE•of•the•following•Hi•radiation•alarms•will•initiate•a•Containment•Purge•System•isolation?ÏÏà••• àA.à••
 •• •• àARMS•R2•(Containment•Area)Ì•• •• „00+3 •• Ìà••
 •• •• `1°,4 •• à•• •• àB.à•• •• àSPING4•(Special•Particulate•and•Iodine•Noble•Gas)Ì•• •• °. •• Ìà•• •• àC.à••
 •• •• àPRMS•R12•(Containment•Air•Radioactivity)Ì•• •• h. ••
 •• •• Ìà•• •• àD.à•• •• àPRMS•R14•(Plant•Vent•Gas)Ì•• ••
 ••p•• •• ÌSD029,CONTAINMENT•VENTILATION•AND•HEAT•REMOVAL,page•23.LP•6902129,ÏCONTAINMENT•VENTILATION•AND•HEAT•REMOVAL,E.O.•5•ONOP11108.1,PROCESSÏRADIATION•MONITOR,Table•1.ÏINRC•Exam•Bank•-•1992/04/20Ïà••
 ••• àAnswer:•à•• •• àC•• •• \$•t •• • Ì23.à•• ••
 àG2.3.2.....001•• •• Û,•• •• à•• •• àÏWhich•one•of•the•following•situations•would•require•prior•review•by•the•ALARA•review•

• board.as detailed.in 0-ADM-600, "Health Physics Manual?" I I A . . .
• A . A 1 . person . replacing . a . valve . gasket . that . involves . an .
exposure . of . 2.5 . rem . total . D (. x D I A B . A .
• 2 . persons . removing . a . piping . spool . that . involves . an . exposure
of . 4.5 . rem . total . D A . 0 D I A C . A . . .
• 3 . persons . performing . a . surveillance . test . on . an . HVAC . filter . unit . inv
olving . an D ~ . e D exposure . of . 2.0 . rem . for . each . pers
on . I I A D . A 5 . people . performing . preventive . main
tenance . on . a . pump . which . involves . an D , . | D exposure .
of . .75 . rem . for . each . person . I C I I R E F : . ADM - 600 . Section . 5.16.1 . d I S O U R C E : . T
P . Bank . Q . 69020201201 / Question . 112 . Per . procedure , cumulative . job . exposu
re . of . 5 I Rem . requires . ALARA . review . board I A A n s w e r : . A
A C D 0
• D I 24 . A 054AK1.02 001 D e ! 8 . " D A
• I Which . one . of . the . following . is . the . reason . why . AFW . flow . rate
is . procedurally . restricted . to . less I than . 100 . gpm . when . recovering . a . ste
am . generator . level . if . the . level . has . fallen . below . 8% . wide I range . indicat
ion ? I I A
• A . A A Ensure . SG . pressure . transient . condition . does . not . occ
ur . which . could . result . in . an D ' ' " (. D uncontrolled . rele
ase . through . a . safety . valve . I I A B . A A Ensure . pres
surizer . level . transient . does . not . result . in . pressure . transient . that . wou
ld D a) O \$ + D actuate . SI . . . I I A C . A
• A Minimize . thermal . stress . conditions . on . steam . generator . components . D .
• 8 , ^ ' D I A D . A A Minimize . RCS . cool do
wn . rate . which . could . result . in . an . unacceptable . positive D d - @)
0 D reactivity . addition . I C , EOP - FR - H . 1 , Caution . Before . Step . 4 .
Basis I A A n s w e r : . A A C D , " 0 O + 3 D D
1 ° , 4 D 25 . A 032AG2.2.23 001 D ° D A
• I Given . the . following : I . I C . Reactor . startup . in . progress . w
ith . the . reactor . critical . I C . Intermediate . Range . Channels . N35 . and . N3
6 . power . I indicate . 3E - 11 . and . 5E - 11 . amps . respectively . I I Which . on
e . of . the . following . describes . the . actions . required . if . BOTH . Source . Range
(SR) I Instruments . fail . LOW . in . this . situation ? I I A A . A
• A Manually . insert . all . control . and . shutdown . rods , then . open . the . react
or . trip D \$. t D breakers . I I A B . A
• A Maintain . current . power . level . until . at . least . one . SR . instrument . is . re
turned . to D , D service . I I A C . A
• A Manually . trip . the . reactor . D L . æ D I A D . A
• A Enter . a . 6 . hour . LCO . then . continue . the . startup . D T .
• D A I I Turkey . Point , ONOP059.5 , step . 5.2.2.1 Obj . 04 I NRC . e
xam . Bank . - . 1995 / 02 / 24 . Turkey . Point . 3 . & . 4 . I A A n s w e r : . A
• A A D P D I 26 . A 068K6.10
001 D X D A I While . operating . in . Mode . 1 , A
nnunciator . H1 / 6 , PRMS . CHANNEL . FAILURE . alarms On I inspection , the . fail
light . is . found . to . be . illuminated . on . PRMS . channel . 18 , Waste . Disposal . S
ystem I Liquid . Effluent . Monitor . I I Which . one . of . the . following . describes .
the . correct . operator . response ? I I A A . A A Bypass . the .
channel . and . direct . chemistry . to . take . periodic . samples . D e ! 8 .
" D I A B . A A Direct . the . SNPO . to . shut . RCV - 014 . (ga

seous.release.isolation.valve).D. . . #.\$. . . D.à. . . .àC.à.
. . . .àStop.liquid.release.if.in.progress.D. . . .X%" & . . . D.
à. . . .àD.à. . . .àRefer.to.0-OP-061.11,.WDS..Controlled.Liqui
d.Release.to.Circulating.Water.D. . . .'"(. . . D.CI3-ARP-097.CR.H.
1/6I3-ONOP-067.Step.8.RNOIà. . . .àAnswer:à. . . .àC.D. . .
..*D%, . . . D.I27.à. . . .àW/E09EA1.3.....001D. . . .8,^'
. . . D.à. . . .àDuring.the.performance.of.3-EOP-ES-0.2,."Natural.C
irculation.Cooldown,".while.cooling.down.the.RCS.at.a.rate.of.25.d
egrees.F/hour,.water.inventory.in.the.Condensate.Storage.Tanks.is.lost
.IIWhich.one.of.the.following.describes.the.appropriate.procedural.act
ions?D. . . .1°,4 . . . D.à. . . .àA.à. . . .àRemain.in.E
S-0.2,."Natural.Circulation.Cooldown,".and.maintain.the.sameD. . .
°. . . . D.cooldown.rate.IIà. . . .àB.à. . . .àRemain.in.E
S-0.2,."Natural.Circulation.Cooldown,".and.stop.the.cooldown.D. . .
.D.".. . . D.à. . . .àC.à. . . .àTransition.to.ES-0.3,."Natu
ral.Circulation.Cooldown.With.Steam.Void.in.VesselD. . . .ü.L.
. . . D(With.RVLS,)".and.increase.the.cooldown.rate.IIà. . . .àD.à
. . . .àRemain.in.ES-0.2,."Natural.Circulation.Cooldown,".and.incre
ase.the.cooldownD. . . .à. . . . D.rate.ICI3ES.0.2,.basis.for.note.pr
ior.to.step.17Ià. . . .àAnswer:à. . . .àC.D. . . .P. . . . D.
28.à. . . .à078K3.01.....001D. D.à. . .
. . .àThe.Instrument.Air.System.controls.and.indications.located.at.the
Alternate.Shutdown.PanelI(ASP).consist.of.air.pressure.indication.an
d.the. . . .IIWhich.one.of.the.components.below.completes.the.abo
ve.statement?IIà. . . .àA.à. . . .àUnit.3.&.4.air.header.cross
.connect.isolation.valve.control.switch.D. . . .¼.... . . D.à. . .
. . .àB.à. . . .àContainment.Air.Header.Isolation.Valve.Normal/Isola
te.switch.D. . . .t.Ä. . . . D.à. . . .àC.à. . . .àDie
sel.air.compressor.start.pushbutton.D. . . .,|.. . . D.à. . .
. . .àD.à. . . .àElectric.air.compressor.start.pushbutton.D. . .
.ä.4. . . . D.B,.....I.....ISD155,.10/8/93,.Page.7.&.LPEO.4..INRC.Exam.
Bank.--T.Pt.1994/02/28Ià. . . .àAnswer:à. . . .àB.D. . .
.0 . . . D.I29.à. . . .à103A1.01.....001D. . . .è!8.
" . . . D.à. . . .àOperators.are.responding.to.a.main.steam.line.brea
k.inside.containment.and.are.attempting.toIsecure.the.Containment.Spra
y.pumps.(CSPs).IIWhich.one.of.the.following.identifies.the.EOP-E-1.pro
cedural.criteria.that.must.be.satisfied.toIallow.stopping.the.CSPs?IIà
. . . .àA.à. . . .àContainment.pressure.<14.psig.OR.Containmen
t.te
mperature.<122ð .ðFD. . . .È(.\$* . . . D.à. . . .àB.à. . .
. . .àContainment.pressure.<14.psig.AND.Containment.temperature.<122ð .ðF
D. . . . *D%, . . . D.à. . . .àC.à. . . .àContainment.pressur
e.<20.psig.OR.Containment.temperature.<180ð .ðFD. . . .8,^'. . . D.
à. . . .àD.à. . . .àContainment.pressure.<20.psig.AND.Containme
nt.temperature.<180ð .ðFD. . . .ð-@)0 . . . D.b.IIREFERENCE:..3-EOP-E-1
,.Step.12Ià. . . .àAnswer:à. . . .àB.D. . . .1°,4 . . . D.
30.à. . . .à034G2.4.48.....001D. . . .°. . . D.à. . .
. . .àGiven.the.following:II..C..The.unit.is.in.Mode.6.with.the.core.lo
ading.in.progress.II..C..Power.Range.channel.N42.is.out.of.service.fo
r.annual.maintenance.II..C..The.power.supply.for.Power.Range.channel.N
41.power.range.channel.fails.IIWhich.one.of.the.following.describes.th

e.required.action.in.this.situation?Ià... àA.à... àNo.
actions.are.required.D... H.~... àB.à...
. àStop.all.fuel.movement.D... P... àC.à...
. àEvacuate.containment.D... àD.à...
. àVerify.refueling.cavity.level.is.above.56'10".D...
.p.À... àB.Turkey.Point,30P040.2,Tech.Specs.3.9.3,ONOP59.5,59.
8.I1995/02/24.Turkey.Point.3.&.4.Ià... àAnswer:à... àB.D.
. .à.0... àI31.à... à013K2.01.....001D...
.~.è... à... àWhich.one.of.the.following.valves.will.remai
n.open.following.a.Phase.A.containment.isolationactuation?Ià...
. àA.à... àMOV-381.RCP.seal.water.returnD... ä.4... àI
à... àB.à... àCV-855.Accumulator.N2.supplyD... æ.i.
. . àIà... àC.à... àMOV-730.RCP.bearing.water.returnD...
. T æ... àD.à... àCV-519A.Primary.wat
er.to.containment.isolationD... !\.!... àC.Reference:SD.
063/SYS.049,063,P.85,,3/4-OSP-203.1.Attachment.7Ià.à... àMOV
-381.RCP.seal.water.return.(Result.of.a.phase.ð=ðA.actuation)D...
.|\$ì %... àB.à... àCV-855.Accumulator.N2.supply.(Resu
lt.of.a.phase
.ð=ðA.actuation)D... 4&„!'... àId.....CV-519A.Primar
y.water.to.containment.isolation.(Result.of.a.phase.ð=ðA.I.....
actuation)Ià... àAnswer:à... àC.D...)ô\$+... àI
32.à... à036AK2.02.....001D... \+~&-... à...
. àRefueling.operations.are.in.progress.on.Unit.3..An.irradiated.fue
l.assembly.is.in.the.transfer.cartin.containment.when.the.following.s
ymptoms.occur:I...C..Annunciator.I.4/6,CNTMT.SUMP.HIGH.LEVEL.in.alar
mI...C..Annunciator.G.9/5,CNTMT.SUMP.HIGH.LEVEL.in.alarmI...C..Annunc
iator.H.1/1,SPENT.FUEL.PIT.LOW.LEVEL.in.alarMD... 1°,4... D.
..C..Containment.Radiation.Monitor.R-3-12.increasingIWhich.one.of.the
.following.is.a.required.IMMEDIATE.ACTION.based.on.the.above.symptoms?
...Ià... àA.à... àDirect.the.refueling.operator.to.cl
ose.SFP.Transfer.Tube.Gate.Valve.D... p... àIà...
.. àB.à... àLay.irradiated.fuel.assembly.down.but.do.not.transf
er.to.the.spent.fuel.pool.D... Ø (... àIà... à
C.à...
. àSound.the.containment.Evacuation.alarm.D... à...
. . àIà... àD.à... àLay.irradiated.fuel.assembly.down.a
nd.transfer.to.the.spent.fuel.pool.D... H.~... àC.IREFERE
NCE.....I3ONOP033.2,REFUELING.CAVITY.SEAL.FAILURE,step.4.1,I.NRC
.Exam.Bank--QDATE.....1992/04/20.Ià... àAnswer:à... àC
D... "ä... àI33.à... àG2.2.28.....001D...
.L.æ... à... àWhich.one.of.the.following.represents.a.mean
s.of.inadvertent.criticality.prevention,as.describedin.0-ADM-035,"L
imitations.and.Precautions.for.Handling.Fuel.Assemblies?"Ià...
àA.à... àThe.minimum.boron.concentration.while.fuel.is.store
d.in.the.spent.fuel.pool.isD... ~.è... à1925.ppm.Ià...
... àB.à... àBurnup.limits.are.placed.on.fuel.located.in
.Region.I.of.the.spent.fuel.pool.D... ,.|... àIà...
.. àC.à... àEnrichment.limits.are.placed.on.the.fuel.located.in
.Region.I.of.the.spent.fuel.pool.D... ä.4... àIà...
.

.. àD.à.. ` . àFuel.as
 sembly.enrichment.shall.not.exceed.3.5.weight.per.cent.of.U-235.in.the
 Ð.. .æ.ì.. . Ðspent.fuel.pool.storage.racks.ÌCÌREF:0-ADM-035.
 pg.16...TS.Bases.3/4.9.14ÌSee.5.4.2.of.procedure.Ìa..incorrect.--1950.
 req'dÌb..incorrect.--applies.to.Region.IIÌc..correctÌd..incorrect.--4.
 5.w/o.applies.to.thisÌà.. ... àAnswer:à.. , .. àCÐ.. .4&„!
 ' . ÐÌ34.à.. ... à009EG2.1.30.....001Ð.. . .ì'<#) . Ðà
 àÌUnit.3.was.at.100%.steady.state.power.when.the.following.e
 vents.occurred:ÌÌ...C..Unit.3.suffered.a.small.break.LOCA.and.tripped.
 from.100%.power.Ì...C..Offsite.power.was.lost.coincident.with.the.reac
 tor.trip.but.has.NOT.been.restored.Ì...C..The.operators.are.now.at.ste
 p.3.of.3-EOP-ES-1.2, "Post-LOCA.Cooldown.andÌ.....Depressurization.
 "Ì...C..Pressurizer.level.is.now.25%.ÌÌWhich.one.of.the.following.desc
 ribes.the.local.actions.required.to.enable.the.RCO.to.energizeÌpressur
 izer.backup.group.heaters?Ð.. . .1°,4 . Ð‡à.. ... àA.à.
 . . . àTo.restore.A.and.B.group.heaters,reset.the
 ir.respective.lockout.relays.Ð.. . .°.. . ÐÌà.. ... àB.à.
 . . . àTo.restore.A.and.B.group.heaters,take.their.respective.key
 lock.switches.toÐ.. . .h.,... . Ðemergency.ÌÌà.. ... àC.à..
 ` . . àTo.restore.the.A.group.heaters.take.the.respective.keylock.
 switch.to.emergency..Ð.. . .ü.L.. . ÐTo.restore.the.B.group.he
 aters,reset.the.lockout.relay.ÌÌà.. ... àD.à.. . . àTo.restore.
 the.A.group.heaters,reset.the.lockout.relay...To.restore.the.B.groupÐ
à.. . . Ðheaters.take.the.respective.keylock.switch.to.eme
 rgency..ÌÐÌSOURCE:EB#69023290306ÌREF:3-EOP-ES-1.2.step.3Ìà.. ... à
 Answer:à.. , .. àDÐ.. . .Ü, .. . ÐÌ35.à.. ... àW/E04EA2.
 1.....001Ð.. . ."ä.. . Ðà.. ... àÌ3-EOP-ECA.1.2, "LOCA
 .Outside.Containment".step.3,states:ÌÌ....."Check.If.Break.Is.Isola
 ted."Ì...ÌWhat.indications.do.you.use.to.accomplish.this.and.based.on.t
 hese.indications,where.do.youÌtransition?ÌÌà.. ... àA.à..
 . àIf..RCS.temperature.is.increasing.then.go.to.3-EOP-E-1, "Loss.o
 f.Reactor.orÐ.. . .P. . . ÐSecondary.Coolant."..If.RCS.tempe
 rature.is.decreasing.then.go.to.3-EOP-ECA-1.1, "Loss.ofÌEmergency.Cool
 ant.Recirculation."ÌÌà.. ... àB.à.. . . àIf.RCS.temperature
 is.increasing.then.go.to.3-EOP-ECA-1.1, "Loss.of.EmergencyÐ.. .
 .À.... . . ÐCoolant.Recirculation."..If.RCS.temperature.is.decreasin
 g.then.go.to.3-EOP-E-1, "Loss.ofÌReactor.or.Secondary.Coolant."Ìà..
 ... àC.à.. . . àIf..RCS.pressure.is.increasing.then.go.to.3
 -EOP-E-1, "Loss.of.Reactor.orÐ.. . .T . . ÐSecondary.Coolant
 .""..If.RCS.pressure.is.decreasing.then.go.to.3-EOP-ECA-1.1, "Loss.ofÌE
 mergency.Coolant.Recirculation."ÌÌà.. ... àD.à.. . . àIf.
 RCS.pressure.is.increasing.then.go.to.3-EOP-ECA-1.1, "Loss.of.Emergenc
 yÐ.. . .Ä"## . . ÐCoolant.Recirculation."..If..RCS.pressure
 .is.decreasing.then.go.to.3-EOP-E-1, "Loss.of.ReactorÌor.Secondary.Coo
 lant."..Ì.CÌECA-1.2, Step.3...Page.6.of.6..If..RCS.pressure.is.incr
 easing.then.go.to.3-EOP-E-1, Loss.ofÌReactor.or.Secondary.Coolant...If
 .RCS.pre
 ssure.is.decreasing.then.go.to.3-EOP-ECA-1.1, LossÌof.Emergency.Coolan
 t.Recirculation.Ìà.. ... àAnswer:à.. , .. àCÐ.. . .È(.\$
 * . . ÐÌ36.à.. ... àG2.2.22.....001Ð.. . .*Ð%, . . Ðà
 àÌGiven.the.following:ÌÌ...C..The.Unit.is.critical.Ì...C..Th

ree reactor coolant loops are in operation. Which one of the following sets of conditions represents a violation of a technical specification safety limit?

A. Power = 50%, Pressure = 1975 psig, Tavg = 605°F
 B. Power = 80%, Pressure = 2250 psig, Tavg = 640°F
 C. Power = 10%, Pressure = 2400 psig, Tavg = 655°F
 D. Power = 90%, Pressure = 2000 psig, Tavg = 595°F

ANSWER: C

Which one of the following will result if a Charging Pump is operated at maximum speed without component cooling water?

A. Temperature of the coupling oil will exceed limits.
 B. Temperature of the thrust bearing will exceed limits.
 C. Charging pump will cavitate within 1 minute.
 D. Temperature limits are expected to remain within specification limits indefinitely.

ANSWER: C

Procedure No. 3-ONOP-030 Component Cooling Water Malfunction. This will occur at half speed. This will not occur. Pump will not get warm enough to cavitate.

ANSWER: C

The plant is stable at 90% power. Which one of the following is most likely to cause an entry into EOP-E-0?

A. Loss of 3P06
 B. Loss of 3P07
 C. Loss of 3P08
 D. Loss of 3P09

ANSWER: C

The operating charging pump fails resulting in a loss of normal charging while operating at 100% power. Which one of the following is the required action after unsuccessful attempts to start a charging pump?

A. Fully open CV-3-310B, alternate charging valve.
 B. Close CV-3-204, letdown isolation valve.
 C.

. àClose CV-3-200 A/B/C, letdown orifice isolation valve(s). Ð.
 x.Ë. . . . ÐIà. àD.à. àFully open HCV-3-12
 1, charging flow to Regenerative heat exchanger. Ð. 0 ÐC
 I3ONOP047.1, Loss of Charging Flow in Modes 1 through 4, step 4.2 IË.O.
 .1 of LP I NRC Exam Bank from the 1996/06/17 Turkey Point 3 & 4 Ià.
 àAnswer: .à. àCÐ. |\$ I % ÐI41.à. à0
 86A3.01 001Ð. 4& „ !' Ðà. àI A fire hydra
 nt on the
 . main fire header is opened, resulting in decreasing fire main pressur
 e. I I As pressure continues to drop, which one of the following identifi
 es the correct automatic starting order of fire system pumps? I I The fir
 st fire pump to autostart would be the: I. Ià. àA.à.
 . àDiesel Fire pump followed by the Electric Fire pump. Ð. ð-@)
 0 ÐIà. àB.à. àDiesel Fire pump followed by the Jo
 ckey Fire pump. Ð. "/ø*2 ÐIà. àC.à. àEle
 ctric Fire pump followed by the Diesel Fire pump. Ð. `1º,
 4 ÐIà. àD.à. àElectric Fire pump followed by the
 Jockey Fire pump. Ð.º. Ðc. I I REFERENCE: .à.
 àSD-153, Page 58 Ð. D. " ÐI From I Jockey Pumps (234A & B) I I T
 hese pumps take suction from the Raw Water Tanks. . . Their suction lines
 are tied together with the line from RWT. I I normally isolated. . . There
 fore, RWT. I I normally provides suction for both I jockey pumps. . . Their co
 mmon discharge is connected to the fire main to maintain about 140 I PSI
 G on the system. . . The recirculation line common to both pumps connects
 to both raw water I tanks but is usually valved to RWT. I. I Electric Fir
 e Pump (P39) I I The pump is rated at 2000 GPM, with shutoff head of 140.
 PSIG. . . Normal suction is from Raw I Water Tank. I. Ià. àAnswer: .
 à. àCÐ. (x. ÐI42.à. à038EA1.27
 001Ð. à0. Ðà. àI In Step 3 of 3-EOP-E-3, "Ste
 am Generator Tube Rupture," operators are directed to Check I ruptured S
 /G steam dump to atmosphere. ðE. ð. CLOSED. I I Which one of the following d
 escribes how the RCO can verify the Steam Dump to Atmosphere I (SDTA) va
 lve is closed? I Ià. àA.à. àThe SDTA controller
 demand position needle is at 0%. Ð. À. ÐThe ERDAD
 S mimic displays a filled in valve. I Ià. àB.à. àThe
 SDTA controller demand position needle is at 0%. Ð. T α.
 ÐThe ERDADS mimic displays an unfilled valve. I Ià. àC.à.
 àThe SDTA controller demand position needle is at 100%. Ð.
 è!8." ÐThe ERDADS mimic displays a filled in valve. I Ià.
 àD.à. àThe SDTA controller demand position needle
 is at 100%. Ð. |\$ I % ÐThe ERDADS mimic displays an unfi
 lled valve. I B. I3-EOP-E-3, ð= ð Steam Generator Tube Rupture. Step 3. I S
 D.105 Steam Dump System. I I TURKEY POINT REVIEWER. - I COULD NOT COPY THE
 BLACK AND WHITE TRIANGLES, I PLEASE VERIFY THE THE WORDING IS CORRECT Ià
 àAnswer: .à. àAÐ. \+ - & - ÐI43.à. à0
 71G2.4.46 001Ð. -d(/ Ðà. àI The followin
 g conditions exist: I Ià. à-à. àA Gas Decay Tank re
 lease is in progress. Ð. „00+3 ÐÐ. `1º, 4 Ðà
 à-à. àPRMS R-15, Condenser Air Ejector monitor, h
 as alarmed. Ð.º. ÐIà. à-à. àPRM
 S R-14, Plant Vent monitor, has alarmed. Ð. h. ÐI Which on

e of the following describes a correct operator response? Ìà... ..
àA.à... .. àEnter.ONOP-041.3,"Excessive.RCS.Leakage."Đ... ..
.Ø (... .. Đìà...
... àB.à... .. àEnter.ONOP-071.1,"Secondary.Chemistry.Deviation.fr
om.Limits."Đ...à... .. Đìà... àC.à... .. àVer
ify.automatic.isolation.of.the.Gas.Decay.Tank.release.has.occurred.Đ...
. ...H.~... .. Đìà... àD.à... .. àVerify.automatic.is
olation.of.steam.generator.blowdown.has.occurred.Đ... .. .P.
. . . ĐCÌREFERENCE:à... .. ,.. à3-ONOP-067,"Foldout.Page.Item.2.bĐ...
. ...".ä... .. .Đà... àAnswer:à... .. ,.. àCĐ... .. .p.Ä.
. . . Đì44.à... à063K3.02.....001Đ... .. .(x... .. .Đà
... .. àWhich.one.of.the.following.identifies.the.AFW.steam.supply
.valve(s).that.may.be.deenergized.in.the.event.of.a.loss.of.vital.DC.p
ower?Ìà... àA.à... .. àMOV-1403,"3A.Stm.Supply.to.Aux..Fe
edwater.PumpsĐ... .. .t.Ä... .. .ĐMOV-1404,"3B.Stm.Supply.to.Aux..
Feedwater.PumpsÌà... àB.à... .. àMOV-1403,"3A.Stm.Supply.to
.Aux..Feedwater.PumpsĐ...X... .. .ĐMOV-1405,"3C.Stm.Supply
.to.Aux..Feedwater.PumpsÌà... àC.à... .. àMOV-1404,"3B.Stm.S
upply.to.Aux
..Feedwater.PumpsĐ... .. .æ.ì... .. .ĐMOV-1405,"3C.Stm.Supply
.to.Aux..Feedwater.PumpsÌà... àD.à... .. àMOV-1403,"3A.Stm.S
upply.to.Aux..Feedwater.PumpsĐ... .. .0... .. .ĐMOV-1404,"3B.Stm.
.Supply.to.Aux..Feedwater.Pumpsà... .. p... àMOV-1405,"3C.Stm.Supply.to
.Aux.Đ... .. .!\.!. . .ĐFeedwater.Pumps.Ìb.ÌREFERENCE:à... .. ,..
à3-OP-075,"Attachment.7Đ... .. .|\$Ì %... .. .Đà... àAnswer:à...
, .. àBĐ... .. .X%" &... .. .Đì45.à... à039A1.09.....001Đ.
.' "(. . .Đà... àThe.DAM1.steam.line.radiation.monito
r.has.alarmed..Which.one.of.the.following.describes.howĐAM1.can.be.u
sed.to.determine.which.S/G.is.the.source.of.the.radiation?Ìà... ..
àA.à... .. àSample.line.isolation.valves.must.be.operated.local
ly.à... .. .àDAM1.readings.canĐ... .. .\+~&- . .Đbe.monitored.local
ly.and.on.ERDADS.Ìà... àB.à... .. àSample.line.isolati
on.valves.must.be.operated.locally.à... .. .àDAM1.readings.canĐ... ..
.Đ-@)0 . .Đbe.monitored.locally.and.in.the.Primary.Sample.Ro
om.
Ìà... àC.à... .. àSample.line.isolation.valves.may.be
.operated.from.the.Control.Room.Đ... .. .,00+3 . .ĐDAM1.readings.can
.be.monitored.locally.and.on.ERDADS.Đ... .. .`1°,4 . .Đ†à... ..
. . .àD.à... .. àSample.line.isolation.valves.may.be.operated.from.t
he.Control.Room.Đ... .. .°. . .ĐDAM1.readings.can.be.monitored.lo
cally.and.in.the.Primary.Sample.Room.ÌĐì5613-M-3072,"Sheet.1....5613-M
-3032,"Sheet.2ÌThe.DAM/1.has.been.installed.as.a.common.steam.line.rad
iation.monitor...Sample.lines.from.all six.steam.generators.run.simult
aneously.through.the.detector...Flow.indicators.are.provided.on each.s
ample.line.so.flow.can.be.verified...To.identify.a ruptured.steam.gene
rator,manual isolation.valves.must.be.operated.and.the.display.checke
d...Since.there.is.a.continuous.sample flow, delay.time.will.be.neglig
ible.ÌThe.DAM/1.Unit.is.identical.in.function.and.operation.to.the.SP
ING/4.Ìà... àAnswer:à... .. ,.. àAĐ... .. .P... .. .Đì
46.à... à003AK3.08.....001Đ... .. .,..... .Đà...
... àA.control.rod.has.dropped.while.at.100%.power.ÌWhich.one.of.the

Tp-r0-i.txt

following describes the control rods status and the basis for this determination? The dropped control rod is: A. . . . B. . . . C. . . . D. . . .

To limit the effects of rod misalignment on accident analysis. To ensure minimum shutdown margin is maintained. To ensure minimum shutdown margin requirements are not affected by rod misalignment.

Shutdown margin requirements are not affected by rod misalignment.

ANSWER: A REFERENCE: a3-ONOP-028.3, Step 5. Tech. Spec. 3.1.3.1 Basis

Answer: a AD 10, 4 48. With Pressurizer pressure initially at 2235 psig, a PORV opened and remained open. Which one of the following identifies the expected PORV tailpipe temperature as seen on TI-3-463 (VPA) when PRT pressure equals 50 psig?

A. 212°F B. 281°F C. 298°F D. 315°F

ANSWER: C REFERENCE: Steam Tables

Answer: c D 49. 067EK1.02 In the event of a fire, which one of the following completes the below requirement regarding the Fire Brigade Program per 0-ADM-016.2, "Fire Brigade Program"? IF a qualified fire brigade operator is available, THEN a Fire Brigade member shall turn over his fire brigade duties to the qualified fire brigade operator prior to:

A. going to the switchyard. B. going to the Nuclear Admin Building. C. entering the switchgear room. D. using a self-contained breathing apparatus.

0-ADM-016.2 Fire Brigade Program 9/23/99 Step 3.7.10 IF a non-fire brigade (qualified) operator is available, THEN a Fire Brigade member shall turn over his fire brigade duties to the non-fire brigade (qualified) operator prior to entering containment or going to the switchyard.

Answer: a AD 50. 072A2.02 The detector for Component Cooling Water Monitor, channel R-17A has failed high and is now alarming. Which one of the following are the consequences of this failure?

A. . . . B. . . . C. . . . D. . . .

• àRCV-3-609,•CCW•Head•Tank•Vent•Valve,•closes.Đ•• • •-d(/ • • ðlâ•• ••• àB.â•• ` • àThere.is.a.local.alarm.only,•and.th ere.are.no.automatic.actions.associated.withĐ•• • •l.*1 • • Đt his.channel.alarm.lâ•• • âĐ•• • „0Ô+3 • • ðâ•• ••• àC.â•• ` • àThe.MOV.for.sample.from.R-17A.in.the.Primary.Sample.Room.cl oses,•and.theĐ•• • .°• • • ðâ•• • âMOVs.downstream.of.R-17 B.must.be.used.to.throttle.and.balanced.flow.to.obtain.a.sample.toİcon firm.the.detector.failure.İlâ•• ••• àD.â•• ` • àRCV-3-014.c annot.be.opened.until.the.alarm.has.been.reset.and.RCV-3-014Đ•• • • .p•• • • ðhand.loader.setting.has.been.decreased.to.zero.İAİSD-068W 97.İlA••

Correct.answer--this.is.from.SD-068W97.page.27İİB.--There.are.no.auto matic.actions.associated.with.this.alarm.for.R-15İİC.--This.is.requir ed.for.a.failure.of.R-19İİD.--When.RCV014.is.tripped.on.high.radiatio n, it.can.not.be.opened.from.the.waste/boronİpanel.until.the.alarm.ha s.been.reset.and.RCV014.hand.loader.setting.has.been.decreased.toİzero .İlâ•• ••• àAnswer:â•• ••• àAĐ•• • ••T•• • • ðİ51.â••

••• à015K5.14.....001Đ•• • •¼••• • • ðâ•• ••• àİWhic h.one.of.the.following.is.correct.concerning.excore.nuclear.instrument ation?••İThe.excore.detectors.are.encased.in:İlâ•• ••• àA.â•• ` • àlead.which.slows.down.the.leaking.fast.neutrons.and.brings.them.int o.thermalĐ•• • ••X•• • • Đequilibrium.with.the.target.boron .İlâ•• ••• àB.â•• ` • àpolyethylene.which.slows.down.the.l eaking.fast.neutrons.which.causes.them.toĐ•• • •æ.İ•• • • Đh ave.a.higher.potential.energy.than.the.target.helium.İlâ•• ••• àC.â •• ` • àpolyethylene.which.slows.down.the.leaking.fast.neutrons.and .brings.them.intoĐ•• • •0 •• • • Đthermal.equilibrium.with. the.target.boron.İlâ•• ••• àD.â•• ` • àlead.which.slows.do wn.the.leaking.fast.neutrons.and.brings.them.into.thermalĐ•• •

•A"••# • • Đequilibrium.with.the.target.helium.İCİSD-004W97İHowever, • this.reaction.requires.that.the.incident.neutron.be.in.thermal.equilib rium.with.the.targetİboron. • Due.to.their.physical.location, the.excor e.nuclear.instruments.will.be.able.to.detect.onlyİneutrons.that.leak.f rom.the.core, most.of.which.will.be.fast.neutrons. • Consequently, the. excoreİdetectors.must.be.encased.in.polyethylene.which.slows.down.(mod erates).the.leaking.fastİneutrons.and.brings.them.into.thermal.equilib rium.with.the.target.boron.lâ•• ••• àAnswer:â•• ••• àCĐ•• •

••*Đ%, • • ðİ52.â•• ••• à068A3.02.....001Đ•• • •8,^' . • • ðâ•• ••• àİA.large.break.LOCA.has.occurred.on.Unit.4. ••İThe. containment.sump.is.full.İİSI.has.been.reset.Đ•• • •l°,4 • • Đ† Which.one.of.the.following.describes.the.effect.on.the.containment.su mp.pumps.and.theİcontainment.sump.pump.discharge.valves.when.Phase.A.c ontainment.isolation.is.reset?İlâ•• ••• àA.â•• ` • àThe.sump.pu mps.will.start.and.the.discharge.valves.will.open.Đ•• • •D."• • • • ðlâ•• ••• àB.â•• ` • àThe.sump.pumps.will.start.and.the.d ischarge.valves.will.remain.closed.Đ•• • •ü.L•• • • ðlâ•• • •• àC.â•• ` • àThe.sump.pumps.will.remain.off.and.the.discharge.va lves.will.open.Đ•• • •'•••• • • ðlâ•• ••• àD.â•• ` • àThe .sump.pumps.will.remain.off.and.the.discharge.valves.will.remain.close d.Đ•• • •l.¼. • • ðdİd.İİREFERENCE:â•• ••• à5614-M-3061, • Sheets.1.&.2Đ•• • •Ü, •• • • ðâ•• ••• àâ•• • •• àâ••

. . . à5614-E-25, Sheet.25DÌà.. . . àà.. . . àà.. . .
à5610-E-25, Sheet.76Ià.. . . àAnswer:à.. . . àDĐ.. . . p.À.
. . . DÌ53.à.. . . à033K4.05.....001Đ.. . . (.x.. . . Đà
.. . . àThe design basis of the spent fuel storage racks is to mai
ntain Keff.____ provided the pool is I_____ Ià.. . . àA.à..
.. . . àKeff.<.1.0.,
.. flooded with 1950 PPM borated water.Đ.. . . t.Ä.. . . DÌà.. . .
.. àB.à.. . . àKeff.<.1.0., flooded with unborated water.Đ.. . .
.. ,| DÌà.. . . àC.à.. . . àKeff.<.0.95, flooded with
1950 PPM borated water.Đ.. . . ä.4.. . . DÌà.. . . àD.à.. . .
.. àKeff.<.0.95, flooded with unborated water.Đ.. . . æ.i.. . . ĐB
I Spent Fuel Storage Racks SD-041W97I The design of the spent fuel racks
provides storage location for up to 1404 fuel assemblies. The storag
e rack consists of a rectangular array of modules, as shown on Figure
8 and 9. Region II modules are arrayed on a 10.6 inch center to center
spacing. Region II modules have a 9 inch spacing. The restriction o
n Region I allows the maximum enrichment loading for fuel assemblies
to be 4.5 weight percent of U-235. For Region II the stored fuel is r
equired to meet burnup requirements (1.6 w/o U-235) as listed in Table
.3.17-1 of Tech. Specs. An encased boron carbide (Boraflex) lining su
rrounds each individual storage location. Ià.. . . à
Answer:à.. . . àBD.. . . 4&„!' .. . DÌ54.à.. . . àW/E02EG2.
4.12.....001Đ.. . . i'<#) .. . Đà.. . . àOperators are perfor
ming 3-EOP-ES-1.1, "SI Termination." The following conditions exist: I
Ià.. . . àð#.ðà.. . . àContainment radiation levels are 1.
5E3.R/hr.Đ.. . . \+~&- .. . DÌà.. . . àð#.ðà.. . . àCon
tainment temperature is 160ð ðF.Đ.. . . -d(/ .. . DÌà.. . .
.. àð#.ðà.. . . àPressurizer level is 33%.Đ.. . . i.*
1 .. . DÌ Operators are unable to open CV-3-204, Letdown from Regen Heat
Exchanger Isolation. IĐ.. . . `1°,4 .. . D Which one of the followin
g describes the correct operator response? Ià.. . . àA.à..
.. àManually open the bypass around CV-3-204 and use one pressurizer PO
RV forĐ.. . . h, .. . D subsequent RCS depressurization. Ià.. . .
.. àB.à.. . . àManually open the bypass around CV-3-204 and restor
e normal letdown flowĐ.. . . ü.L.. . . D when adverse containment
conditions no longer exist. Ià.. . . àC.à.. . . àEstablish e
xcess letdown and continu
e attempts to establish normal letdown.Đ.. . . à.. . . DÌà.. . .
.. àD.à.. . . àEstablish excess letdown and use auxiliary spray (C
V-3-311) for subsequentĐ.. . . H.~ .. . D RCS depressurization. ICIR
EFERENCE:à.. . . à3-EOP-ES-1.1, Step.9à.. . . à5613-M-3047, She
et.1Đ.. . . Ü, .. . Đà.. . . àAnswer:à.. . . àCĐ.. . .
.. . . . DÌ55.à.. . . à001G2.1.2.....001Đ.. . . p.À.
.. . . Đà.. . . àUnit 3 is at 90% power with all rods fully withdraw
wn when the unit RCO receives the following annunciators: I I.. . C.B.7/1
.NIS.RPI.ROD.DROP/ROD.STOP. I.. . C.B.6/4.POWER.RANGE.CHANNEL.DEVIATION I
.. . C.B.9/3.SHUTDOWN.ROD.OFF.TOP/DEVIATION I.. . C.B.2/2.POWER.RANGE.UPP
ER.DET/AUTO.DEFEAT I.. . C.B.2/3.POWER.RANGE.LOWER.DET/AUTO.DEFEAT. I.. . IT
he RCO observes the RPI indicators and rod bottom lights and determine
s two rods in the same rod bank group have fully inserted. I Which one
of the following describes the appropriate course of action to be take

n.?IÎà... àA.à... àCheck.QPTR.to.be.less.th
 an.OR.equal.to.2%.Ð... .0... ÐIÎà... àB.à...
 . àTrip.the.Reactor.and.enter.3-EOP-E-0,"Reactor.Trip.or.Safety.Injec
 tion."Ð... .è!8."... ÐIÎà... àC.à... àIncrease.re
 actor.power.to.maintain.Tave.within.3.degrees.of.Tref.Ð... . #ð.
 \$... ÐIÎà... àD.à... àIncrease.turbine.load.to.maintain.T
 ave.within.3.degrees.of.Tref.Ð... .X%" &... ÐA.IONOP-028.3.pag
 e.5.step.4IÎAttach.core.drawing.to.show.location.of.control.rodsIB...No
 t.required.because.both.rods.are.in.the.same.groupIC...Caution.prohib
 its.increase.in.reactor.power.while.performing.this.procedureID...Redu
 cing.turbine.load.is.permittedIÎà... àAnswer:à... àAD...
 .\+~&-... ÐIÎ56.à... à003A1.10.....001Ð...
 ..-d(/... Ðà... àIWhich.one.of.the.following.describes.the.eff
 ect.of.decreasing.VCT.pressure.from.30.psig.to.10Ipsig.during.RCS.heat
 up.in.Mode.3?IÎà... àA.à... àCharging.Pumps.will.cavitat
 e.Ð... .1°,4... ÐIÎà... àB.à... àRCP.#2.seal
 .flow.decre
 ases.Ð... .°... ÐIÎà... àC.à... àLetdown.flo
 w.increases.Ð... .h... ÐIÎà... àD.à... àHig
 h.RCP.standpipe.level.alarm.actuates.Ð... .p... ÐBII#/4-OP
 -047.1.P&L.4.2,.4.15.3IÎThe...>15.PSIG.VCT.pressure.is.based.on.maintai
 ning.sufficient.backpressure.on.the.ReactorICoolant.pump.No..1..seals.
 ..The.back.pressure.on.No..1.seals.is.the.summation.of.piping.flowIres
 istance.in.the.seal.water.return.lines.and.VCT.pressure...Increased.ba
 ck.pressure.couldIcause.a.reduction.in.No..1.seal.water.flow...Therefo
 re.the.#2.seal.flow.will.decrease.if.theIbackpressure.on.the.#1.seal
 .decreases.IÎà... àAnswer:à... àBD... .,.... ÐI
 57.à... à075K1.02.....001Ð... .p.À... Ðà...
 . àIWhich.one.of.the.following.identifies.the.minimum.number.of.Circul
 ating.Water.Pumps.that.mustIbe.in.operation.to.satisfy.the.interlock.t
 hat.allows.a.radioactive.liquid.release?IÎà... àA.à...
 . à0Ð... .¼.... ÐIÎà... àB.à... à1Ð...
 .t.À...
 . ÐIÎà... àC.à... à2Ð... .,|... ÐIÎà...
 .. àD.à... à3Ð... .ä.4... Ðb.IÎREFERENCE:à...
 à5613-M-3010,Sheet.1Ð... .x.È... ÐWhen.discharging.from.the
 .rad.waste.facility.monitor.tanks, valve.1804.is.opened.to.the.wasteIr
 elease.header, RCV-18.is.opened, and.then.valve.4749.is.opened.and.thr
 ottled.to.obtain.theIproper.liquid.waste.release.flow.rate.as.indicate
 d.on.FI-1064...R-18.count.rates.should.beIcontinuously.monitored.durin
 g.the.release...An.expected.count.rate.for.R-18.is.calculated.by.theIc
 hemists...During.the.release, R-18.response.is.verified.by.comparing.a
 ctual.count.rate.to.theIexpected.count.rate...Start.and.stop.times, ta
 nk.levels, and.the.R-18.count.rate.are.recorded.onIthe.release.permit.
 ..Should.R-18.exceed.its.alarm.setpoint.during.the.discharge, the.moni
 torItank.pump.is.stopped.and.RCV-18.and.valve.4749.are.closed...The.Nu
 clear.Plant.Supervisor.isIthen.notified...When.the.tank.being.released
 .reaches.its.low.level.alarm.setpoint, the.transferIpump.aut
 omatically.stops.and.the.lineup.is.then.return.to.normal...RCV-18.is.c
 losed, valve.4749Iis.closed.and.locked, and.valve.1296.or.1804.is.clos
 ed.IÎà... àAnswer:à... àBD... .È(\$*... ÐIÎ58.à...

... à017A1.01.....001D... .. *D%, . . Dà... .. àIPlan
t.conditions:II...C..A.reactor.trip.with.a.loss.of.all.AC.power.occurred.2.hours.ago.I...C..Core.exit.thermocouples.read.approximately.650.degrees.F.and.increasing.I...C..Steam.generator.pressure.is.stable.at.815.psig.I...C..Steam.generator.steam.flow.is.undetectable.ID... ..
`1°,4 . . DWhich.ONE.of.the.following.describes.plant.conditions?IIà
... .. àA.à... .. àLoss.of.natural.circulation.flow.has.occurred.D... .. h.,... .. DIà... .. àB.à... .. àNatural.circulation.flow.is.increasing.D... .. p... .. DIà... .. àC.à... ..
àThe.reactor.core.has.uncovered.and.core.damage.is.imminent.D... .. Ø (. . . DIà... .. àD.à... .. àReactor.Coolant.System.subcooling.margin.is.increasing.D... .. à... .. DA
IIREFERENCE.
.....ILP.6902324,.3/4-EOP-ES-0.1.Attachment.1IE.O..2.of.LP.6902324II
NRC.Exam.Bank.--T.Pt.1996/06/17.Ià... .. àAnswer:à... .. àAD... ..
. . "ä... .. DI59.à... .. àW/E05EK2.1.....001D... ..
.Læ... .. Dà... .. àIUnit.3.operators.have.entered.FR-H.1."Response.to.Loss.of.Secondary.Heat.Sink".IIThe.following.conditions.exist:II
...C..No.Main.Feedwater.Pumps.are.available.I...C..No.Auxiliary.Feedwater.Pumps.are.available.I...C..The.RCP's.are.off.I...C..Annunciator.E-2/6.HI-HI.SG.LVL.TURBINE.TRIP/FEEDWATER.ISOLATION.isI.....in.alarm.I
...C..The.operators.are.preparing.to.re-establish.feedwater.using.the.Standby.I.....SteamGenerator.Feedwater.Pump.IIWhich.one.of.the.following.identifies.the.minimum.signals.that.must.be.reset.to.satisfy.the
interlocks.to.re-establish.feed.flow.to.the.Steam.Generators?IIà...
... .. àA.à... .. àReset.SID... .. è!8." . . DIà... ..
.. .. àB.à... .. àReset.Phase.AD... .. #ø.\$. . DIà... .. àC.à... ..
. . àReset.Feedwater.IsolationD... .. X%" & . . DIà... ..
... .. àD.à... .. àReset.Feedwater.Isolation.and.SID... .. ' `"
(. . DCIFeedwater.isolation.will.reset.with.either.initiating.signal.still.in.,Drawing.5610TL1Ià... .. àAnswer:à... .. àCD... ..
.α)ô\$+ . . DI60.à... .. à026A2.03.....001D... .. \+~&
- . . Dà... .. àIUnit.4.experienced.a.Design.Basis.LOCA...The.4B.sequencer.failed.to.operate.IIWhich.one.of.the.following.describes.the.required.operator.response.to.verify.ContainmentISpray.operation?IIà...
... .. àA.à... .. àManually.start.the.4B.CSP...Manually.open...
MOV-4-880B.D... .. `1°,4 . . D‡à... .. àB.à... .. àManually.start.the.4B.CSP...Check.MOV-4-880B.automatically.opened.D... ..
.º. . . DIà... .. àC.à... .. àCheck.autostart.of.the.4B.CSP...Manually.open.MOV-4-880B.D... .. h.,... .. DIà... ..
.. .. àD.à... .. àCheck.autostart.of.the.4B.CSP...Check.MOV-4-880B.automatically.opened.D... .. p... .. Db.à... .. àD... ..
.ü.L... .. DIREFERENCE:à... .. à5610-T-L1,Sheet.11.and.Sheet.131a.D... ..
. . Dà... .. àEOP-E-0,Step.14Ià... .. àSD.--025W7IIAdequate.containment.heat.removal.capability.is.provided.by.two.separate,.full.capacity,Iengineered.safety.feature.systems...The.design.basis.for.containment.heat.removal,.and.theIbasis.for.containment.pressure.transient.calculations.in.the.FSAR,.chapter.14,.safety.analysis,Iassumes.that.at.least.one.of.the.three.ECCs.and.a.containment.spray.pump.are.operable
forIpost-LOCA.heat.removal.and.that.the.second.ECC.will.be.running.wi

thin the first 24 hours following the accident. The temperature and pressure profiles generated by the chapter 14 analysis were used as the basis for equipment qualification. One train of containment spray OR two of the three ECCs could provide the heat removal capability to maintain the post accident containment temperature and pressure below the design values. However, the design and licensing basis LOCA analysis assumes the use of both redundant systems. This design basis was used for equipment qualification inside containment. At least one of the three ECCs work in conjunction with one train of containment spray to maintain the containment temperature and pressure within the design basis equipment qualification envelopes. The second ECC must be running within 24 hours to ensure these qualifications are maintained over the long term.

Answer: A. At least one of the three ECCs work in conjunction with one train of containment spray to maintain the containment temperature and pressure within the design basis equipment qualification envelopes. The second ECC must be running within 24 hours to ensure these qualifications are maintained over the long term.

Which one of the following solid state protection system rod control interlocks (rod stops) and their coincidences is correct?

Rod Stops Coincidence

Power range High Flux

2/4 DOPDT Setpoint matches Actual DT Coincidence 2/3

Power range High Flux

1/4 DOPD Setpoint matches Actual DT Coincidence 2/3

Power range High Flux

2/4 DOPDT Setpoint matches Actual DT Coincidence 1/2

Power range High Flux

1/4 DOPD Setpoint matches Actual DT Coincidence 1/2

Reference: SD 005/SYS.027A, 028A, Figure 12, 5610-T-LI.sht 21

Answer: A. Operators are performing a reactor startup on Unit 3. The ECC predicts criticality at D-100. Which one of the following identifies the rod height closest to the point at which operators will announce entry into Mode 2?

A-93 D-110 1 1/4 D-83 D-100

REFERENCE: 0-OSP-040.4, Step 11.2 PCB Section 2, Fig. 5 Unit 3 Cycle 18.0E.0.10,000 D-MWD/MTU

Answer: A. The power supplied to AMSAC from both Vital Buses 3P06 and 3P07 has been lost. What effect will this have on AMSAC and its components?

A. AMSAC will not actuate, and will not be capable of actuation, however, the RPS will perform its safety functions without interference from AMSAC.

B. AMSAC will not actuate initially, however, it will automatically switch to an alternate power supply and will be fully functional.

C. AMSAC will not actuate initially, however, it will automatically switch to an alternate power supply and will be fully functional.

AC will actuate, and the RPS will perform its safety functions without
 Ð . . . x.Ë . . . Ð interference from AMSAC.ÏÏà . . . à D.à . . .
 . à AMSAC.wi
 ll not actuate and will not be capable of actuation, and the loss of t
 he Ð Ð AMSAC will disarm any loss of Channel II
 I and/or IV First Stage Turbine Pressure Signal (after 360 seconds).Ï
 AÏSD.063/SYS.049,063ÏÏ Failure Modes And Effects Analysis (FMEA)ÏÏ Thi
 s FMEA demonstrates that AMSAC will not spuriously actuate given a sin
 gle failure of any electrical component which provides input to AMSAC
 and that loss of power supplied to AMSAC and its components will not a
 ctuate AMSAC.ÏÏ The AMSAC is a backup for the Reactor Protection System
 (RPS) during an ATWS event and is considered non-safety related. . . The
 AMSAC has been designed such that in the event of AMSAC power failure
 the AMSAC will not actuate, as the circuitry will actuate only when e
 nergized. . . Failure of the AMSAC to actuate shall not adversely affect
 any existing plant systems or components. . . In addition, electrical iso
 lation devices internal to the AMSAC cabinet supply a protective inter
 face between the non-safety AMSAC and the eight sa
 fety related inputs and two safety related outputs. . . This isolated saf
 ety-non-safety boundary assures that an electrical failure of AMSAC wi
 ll not affect the equipment on the safety related side of the Ð . . .
 .`1°,4 . . . Ð isolators. . . By the use of this protective isolation and a
 dding the AMSAC "energize to actuate" control signals parallel to the
 existing control initiating circuitry, the RPS will perform its safety
 functions without interference from AMSAC, whether or not AMSAC is ac
 tuated. . . Refer to Table 2.ÏÏ Failure of any First Stage Turbine Pressur
 e Signal (Channel III and/or IV)ÏÏà . . . à Loss of signal will dis
 arm AMSAC (after 360 seconds)ÏÏ Loss of Vital Power 3P06 (S/G level Cha
 nnel I), 3P07 (S/G level channel II).ÏÏà . . . à The AMSAC processor
 will not initiate an actuate signal if power is lost to these power is
 ources. . . This part of the inherent logic of the processor and will giv
 e AMSAC trouble alarm on 3C04. . . Also check control board indicators fo
 r trouble.ÏÏà . . . à Answer:à . . . à A
 Ð " .à . . . Ð 64.à . . . à 011EA1.17 . . . 001Ð . . .
 .Læ . . . Ðà . . . à While in Mode 4 Unit 3 experienced a LOCA.Ï
 Ï Ò# .ðà . . . à Operators are performing 3-ONOP-041.7, "Shutdown LOCA
 [Mode 3 (Less than 1000 Ð . . . ¼ . . . Ð psig) or Mode 4]."ÏÏ Ò# .ðà
 . . . à One HHSI pump has been started.Ð . . . P . . . ÐÏ
 Ò# .ðà . . . à CET temperatures are stable and RCS Hot Leg temperatur
 es are decreasing slightly.Ð . . . X . . . ÐÏ Ò# .ðà . . . à
 RVLMS Plenum indication is 0%.Ð . . . À . . . ÐÏ Which one of the
 following identifies the required operator response and the reason fo
 r that response?ÏÏà . . . à A.à . . . à Immediately start a
 ll HHSI pumps to fill the upper head.Ð . . . ÐÏà . . .
 . . . à B.à . . . à Immediately start all HHSI pumps to restore core co
 oling.Ð . . . À . . . # . . . ÐÏà . . . à C.à . . . à Start addit
 ional HHSI pump(s) one at a time, as necessary to fill the upper head.
 Ð . . . |\$Ï % . . . ÐÏà . . . à D.à . . . à Start additional HH
 SI pump
 p(s) one at a time, as necessary to restore core Ð . . . 4&„!' . . . Ðc
 ooling.ÏÏ ANSWER:ÏÏ cÏÏ REFERENCE:à . . . , . . . à 3-ONOP-041.7, Step 15Ð . . .

•8,^'. . . ÐI3-ONOP-041.7, •Shut•Down•LOCA., •Step•15..İİA...On
 ly•required•if•RCS•hot•legs•are•not•stableİİB...Only•required•if•RCS•t
 emperature•is•increasingÐ... .`1°,4 . . Ð‡C...Required•because•upp
 er•head•is•voidedİİD...Note•prior•to•step,•directs•operator•to•only•st
 art•ONE•charging•pump•at•a•time•and•allow•theİplant•to•stabilize•befor
 e•starting•additional•pumps.İà... . . . àAnswer:•à... . . . àCÐ... .
 . . . p... . . . ÐI65.à... . . . à073A2.02.....001Ð... . . . Ø
 (.. . . Ðà... . . . àİContainment•Air•Particulate•Monitor•Channel•(R-1
 1)•is•reading•erratically...The•instrumentİtechnicians•report•that•the
 •lead•for•the•power•supply•has•come•loose...As•he•reconnects•theİlead,
 •the•instrument•momentarily•goes•off•scale•high•and•upon•reconnecting
 the•lead,•theİinstrument•returns•to•its•normal•value...What•are•the•co
 nsequences•of•the•instrumentİtechnicians•actions?İİà...
 ... àA.à... . . . àThe•containment•purge•supply•and•exhaust•fans•trip.
 •The•containment•purgeÐ... . . . ,.... . . . Ðsupply•and•exhaust•isolat
 ion•valves•close...The•control•room•ventilation•is•in•recirculation•mo
 de.İİà... . . . àB.à... . . . àThe•containment•purge•supply•and•ex
 haust•fans•remain•running...TheÐ... . . . Lœ... . . . Ðcontainment•purge
 •supply•and•exhaust•isolation•valves•close...The•control•room•ventilat
 ion•is•inİrecirculation•mode.İİà... . . . àC.à... . . . àThe•contain
 ment•purge•supply•and•exhaust•fans•trip...The•containment•purgeÐ... .
 .¼.... . . . Ðsupply•and•exhaust•isolation•valves•remain•open..
 •The•control•room•ventilation•remains•inİnormal•alignment.İİà... . . .
 àD.à... . . . àThe•containment•purge•supply•and•exhaust•fans•remai
 n•running...TheÐ... . . . ,|... . . . Ðcontainment•purge•supply•and•exha
 ust•isolation•valves•close...The•control•room•ventilationİremains•in•n
 ormal•alignment.İAİFrom•Process•radiation•monitors•SDİContainment•Air•
 Particulate•Monitor•Channel•(R-11)•and•Radioactive•Gas•Monitor•
 Channelİ(R12)İThe•alarm•setpoints•for•R-11•and•R-12•are•based•on•the•c
 ontainment•purge•exhaust•rate...İThese•setpoints•are•determined•by•the
 radiochemist,•and•adjusted•(per•his•instructions)•by•theİI&C•Departmen
 t...The•alarm•setpoints•for•these•monitors•are•determined•from•Technic
 alİSpecifications...A•high•alarm•condition•on•either•of•these•channels
 •initiates•a•containmentİventilation•isolation...In•order•to•reset•the
 containment•ventilation•isolation•signal,•containmentİradioactivity•mu
 st•be•reduced•below•the•specified•setpoint•and•the•lockout•relays•asso
 ciatedİwith•containment•ventilation•isolation,•located•on•relay•racks•
 QR50•and•QR51•behind•VPB,•mustİbe•reset...The•containment•ventilation•
 isolation•signal•isolates•the•containment•ventilation•byİtripping•the
 containment•purge•supply•and•exhaust•fans,•closes•the•containment•purg
 e•supplyİand•exhaust•isolation•valves,•closes•the•instrument•air•bleed
 •valves,•and•places•the•control•roomİventilation•in•recirculation•mode
 .İİà... . . . àAnswer:•à... . . . àAD... .
 •*Ð%, . . . ÐI66.à... . . . àG2.2.23.....001Ð... . . . 8,^'
 . . . Ðà... . . . àWhich•one•of•the•following•identifies•when•AFW•Syst
 em•Tech•Specs•are•applicable•andİwhen•operability•is•demonstrated?İİ
 à... . . . àà... . . . àApplicabilityà... . . . àà... . . . h... àà...
 À... àà... . . . àDemonstrate•OperabilityÐ... . . . "/ø*2 . . . Ðİ
 à... . . . àA.à... . . . à.....Modes•1.&•2.....
Prior•to•entering•Mode•1Ð... . . . `1°,4 . . . Ð‡à... . .
 .. àB.à... . . . à.....Modes•1.&•2.....

.....Prior.to.entering.Mode.2D..DÎà.. ... àC.à.
.Modes.1,.2.&.3.....Pri
or.to.entering.Mode.1D..DÎà.. ... àD.à..
.Modes.1,.2.&.3.....Prior.to.en
tering.Mode.3D..p..Dc.ÎÎREFERENCE:à.. ,.. àTech..S
pec..3/4.7.1.2D..Dà.. ... àAnswer:à.. ,.. àC
D..DÎ67.à.. ... à055EA2.01.....001D.. .
.H.~..
.Dà.. ... àÎWith.both.units.initially.at.100%.power.and.normal.
system.alignments,.the.switchyardÎdeenergizes.resulting.in.a.Loss.of.O
ffsite.Power.to.both.units.ÎÎ-à.. ... àBoth.Unit.3.EDGs.locked.out.
and.cannot.be.restarted.D..Dà.. ... àÎ-à.. ...
àBoth.Unit.4.EDGs.automatically.started.and.reenergized.their.respecti
ve.4kV.buses.D..L.æ.. . . .DÎà.. ... à-à..àThe
.ANPS.directs.the.BOP.to.restore.power.to.the.3A.4KV.bus.first.D.. . .
...T.. . . .DÎWhich.one.of.the.following.identifies.the.source
.of.power.that.operators.will.align.to.the.3A.4KVÎbus?ÎÎà.. ... àA.
à..à4A.EDG.via.the.3D.and.4D.4kV.Buses.D..P. .
.DÎà.. ... àB.à..à4B.EDG.via.the.3D.and.4D.4kV.Buses.
D..X..DÎà.. ... àC.à..à3C.4kV.Bus.D.. . .
.À....DÎà.. ... àD.à..àUnit.4.Startup.Transformer.
D..x.È..Db.ÎÎREFERENCE:à.. ,.. à3-ONOP-004.2,Steps.8-
.15.D..!\\!Dà.. ... àAnswer:à.. ,.. àBD.. .
.è!8."

.DÎ68.à.. ... à007A2.02.....001D..#ð.\$Dà
.àÎOperators.are.performing.3-OP-041.3,Section.7.2,"Reducin
g.PRT.Liquid.Temperature."ÎAnnunciator.A.7/1,.PRT.HI/LO.LEVEL.HI.PRESS
/TEMP,.alarms..ÎÎThe.RCO.observes.the.following.PRT.parameter.values:
ÎÎà.. ... àà..àPRT.Temperature:à.. h.. à105ð .ð.FD.. .
.ô\$+DÎà.. ... àà..àPRT.Level:à.. ..
.h.. à..69.%D..\\+7&-DÎà.. ... àà..
.àPRT.Pressure:à.. h.. à..12.psigD..-d(/DÎWhich.ON
E.of.the.following.identifies.correct.operator.response?ÎÎà.. ... à
A.à..àContinue.with.Section.7.2,"Reducing.PRT.Liquid.Tem
perature."D..„00+3DÎà.. ... àà..
.àB.à..àRaise.PRT.level.by.performing.Section.5.1,"Establi
shing.Normal.Conditions."D..DÎà.. ... àC.à.
.àLower.PRT.level.by.performing.Section.7.1,"Draining.the.PR
T."D..h..DÎà.. ... àD.à..àLower.PRT.p
ressure.by.performing.Section.7
.3,"Purging/Reducing.PRTD..p..DPressure."ÎANSWER
:ÎÎdÎÎREFERENCE:à.. ,.. à3-OP-041.3.CAUTION.before.Step.7.2.1,.3-AR
P-097.CR.A7/1D..H.~..Dà.. ... àAnswer:à.. ,.. àD
D..\$.tDÎ69.à.. ... à001AK1.17.....001D.. . .
.Û.,.. . . .Dà.. ... àÎOperators.have.successfully.completed.Immedi
ate.Actions.in.response.to.an.uncontrolled.rodÎwithdrawal.with.reactor
.power.initially.at.85%.ÎÎThe.following.stable.conditions.now.exist:ÎÎ
à..àReactor.Power:à.. ... àà..h.. à..87%D..à0.
.DÎà.. ... àTavg:à..àà..àà..àà..
h.. à..574ð .ðFð..~.è..DÎà.. ... àTref:à..
.àà..àà..àà..h.. à..570ð .ðF..(same.as.pr

e-event.value)D... .P... .D... . . . àRCS.boron.Concentrat
ion:à... h... à...270.ppm..(same.as.pre-event.value)D... . . .X.
. . . DWhich.one.of.the.following.is.correct.regarding.the.effect.of.
this.event.on.the.ModeratorTemperature.Coefficient.(MTC).and.the.pote
ntial.effe
ct.on.subsequent.operations?I... . . . àA.à... . . . àMTC.has.bec
ome.more.negative..A.subsequent.cooldown.would.add.positiveD... .
.T... . . . Dreactivity.I... . . . àB.à... . . . àMTC.has.bec
ome.more.negative..A.subsequent.cooldown.would.add.negativeD... .
.è!8." . . . Dreactivity.I... . . . àC.à... . . . àMTC.has.bec
ome.less.negative..A.subsequent.cooldown.would.add.positiveD... .
.|\$Î % . . . Dreactivity.I... . . . àD.à... . . . àMTC.has.bec
ome.less.negative..A.subsequent.cooldown.would.add.negativeD... .
..'"(. . . Dreactivity.I... . . . àAnswer:à... . . . à
AD... . . . \+&- . . . DÎ70.à... . . . à069EK3.01.....001D.
. . . -d(/ . . . Dà... . . . àOperators.have.performed.3-EOP-ECA.1
.1,"Loss.of.Emergency.Coolant.Recirculation".and.are.inow.responding.t
o.high.containment.pressure.using.3-EOP-FRZ.1,"Response.to.HighCont
ainment.Pressure."..Both.procedures.have.criteria.for.using.containment
.spray..Which
one.of.the.following.states.which.procedure.has.precedence.and.its.bas
is?D... . . . 1°,4 . . . DThe.operation.of.the.containment.spray.p
umps.indicated.in.procedure...I... . . . àA.à... . . . à3-EOP-ECA.1
.1.takes.precedence.over.the.guidance.of.3-EOP-FR-Z.1.becauseD... .
.h... . . . DIt.conserves.RWST.water,.if.possible,.by.stopping.contain
ment.spray.pumps.I... . . . àB.à... . . . à3-EOP-ECA.1.1.takes
precedence.over.the.guidance.of.3-EOP-FR-Z.1.becauseD... . . . L.
. . . DIt.ensures.the.maximum.available.heat.removal.system.operabilit
y.in.order.to.reducecontainment.pressure.I... . . . àC.à... .
. à3-EOP-FR-Z.1.takes.precedence.over.the.guidance.of.3-EOP-ECA.1.1.be
causeD... . . . 1¼. . . . DIt.conserves.RWST.water,.if.possible,.by
.stopping.containment.spray.pumps.I... . . . àD.à... . . . à3-E
OP-FR-Z.1.takes.precedence.over.the.guidance.of.3-EOP-ECA1.1.because.i
tD... . . . P... . . . Densures.the.maximum.available.heat.removal
.system.operability.in.order.to.reduce.containmentpressure.IA.IBASIS
.DOCUMEN
T.Page.11.BD-EOP-FR-Z.1.RESPONSE.TO.HIGH.CONTAINMENTPRESSURE.IIProced
ure.ECA-1.1.uses.a.less.restrictive.criteria,.which.permits.reduced.sp
ray.pump.operationdepending.on.RWST.level,.containment.pressure.and.n
umber.of.emergency.fan.coolersoperating.level,.containment.pressure.
and.number.of.emergency.fan.coolers.operating.IIThe.less.restrictive.c
riteria.for.containment.spray.operation.is.used.in.procedure.ECA-1.1.s
inceirculation.flow.to.the.RCS.is.not.available.and.it.is.very.imp
ortant.to.conserve.RWST.water,.ifpossible,.by.stopping.containment.sp
ray.pumps.I... . . . àAnswer:à... . . . àAD... . . . X... . . . DÎ
71.à... . . . à040EG2.4.6.....001D... . . . À.... . . . Dà... . .
. àOperators.have.entered.3-EOP-E-0.due.to.a.Steam.Line.break..Step.
13.of.3-EOP-E-0.states:I... . . . DCheck.if.Main.Steam.lines.should.be.isol
ated.IIWhich.one.of.the.following.conditions.would.require.closing.th
e.MSIVs.in.this.situation?I... . . . àA.à... . . . àHigh.steam

flow and high TavgD... #0\$... D1a... àB.à
 ... àLow steam flow and low TavgD... X% &... D1a...
 ... àC.à... àLow Tavg and Hi.Hi containment pressureD...
 ...'\"(... D1a... àD.à... àLow Tavg and Low S/G pressu
 reD... È(.\$* ... DCIREF.EOP-E-0, step 13 and basis documen
 t11A... Requires high steam flow and low tavg or low steam generator pr
 essure... Does1... not have low Tavg... Would be a small break with fee
 dwater isolation.11B... Requires high steam flow and low tavg or low st
 eam generator pressure... Does1... not have high steam flow... A bre
 ak before the flow sensors.11C... A break inside containment... Hi.Hi.c
 ontainment pressure would cause the isolationD... 1°,4 ... D1
 D... Requires high steam flow and low tavg or low steam generator pre
 ssure... Does1... not have high steam flow... A break where the flow
 sensors do not respond..1a... àAnswer:à... àCD...
 .h... D172.à... à051AA1.04...001D... .p.
 ... Dà... à1Unit.3 is at 100% power when the Main Turbine sl
 owly begins losing vacuum... Operators enter13-ONOP-014, "Main Condenser
 Loss of Vacuum", but are unable to immediately start the SJAE hogging
 jets... Operators then go to 3-GOP-103, "Power Operatio to Hot Standb
 y," and begin a power decrease.11The following conditions exist:11-à...
 ... àInitial condenser vacuum was 28 inchesD... Ü,... D-
 à... àVacuum was lost at a rate of 0\$.0 inch per minute... D...
 ,... D-à... àThe decrease continued for 8 minutes
 until the SJAE hogging jets were startedD... "ä... D-
 à... àVacuum then recovered at a rate of 0\$.0 inch per minute...
 D... .p.À... D-à... àThe rate of load decrease was 35 MWT
 per minute and remained constant until twoD... L.æ... Dm
 inutes after the SJAE hogging jets were restarted...11Which one of th
 e following indicates the approximate power level when SJAE hogging pu
 mps1were started and were any condenser vacuum limitations violated?11
 à... àA.à... àThe approximate power level when th
 e SJAE hogging jets were started was 52.%D... t.Ä... Dà
 nd no operational limits associated with the condenser vacuum were vio
 lated.11à... àB.à... àThe approximate power level when th
 e SJAE hogging jets were started was 52.%D... X... Dà
 nd operational limits associated with the condenser vacuum were violat
 ed.11à... àC.à... àThe approximate power level when th
 e SJAE hogging jets were started was 62.%D... æ.1... Dà
 nd no operational limits associated with the condenser vacuum were vio
 lated.11à... àD.à... àThe approximate power level when th
 e SJAE hogging jets were started was 62.%D... 0... Dà
 nd operational limits associated with the condenser vacuum were violat
 ed.11At 8 minutes the power level had dropped 280 MW 280/728 is ~62%
 power... The power1decrease continued, however the vacuum recovered be
 fore reaching the region where1operations is not allowed...11A... Power
 level based on 12 minutes, not 10... Misreading the curve to determine
 1... op
 erational limits had been violated.11B... Power level based on 12 minute
 s, not 10.11C... Correct answer11D... Misreading the curve to determine o
 perational limits had been violated.11Provide 3-ONOP-014 curve1a...
 ... àAnswer:à... àCD... 1.*1 ... D173.à... à0

Tp-r0-i.txt

62A202.04.....001D... ..00+3... ..Dà... ..àD... ..
 `1°,4... ..DUnit.4.is.operating.at.100%.power.with.two.ICW.pumps.runn
 ing...One.pump.trips.and.flow through.the.remaining.ICW.Pump.is.20,500
 .GPM...An.attempt.to.adequately.reduce.ICW.total flow.by.throttling.the
 the.TPCW.Hx.Outlet.ICW.isolation.valve.and.the.CCW.Hx.Outlet.Spool.piece
 valve.was.unsuccessful...Which.one.of.the.following.describes.your
 required.actions?..àA.. ..àReduce.unit.load.us
 ing.3-GOP-103.to.limit.heat.input.into.the.TPCW.system.AND... ..
Dthrottle.ICW.flow.to.the.TPCW.system.heat.exchangers.usin
 g.3-50-401.until.TPCW.heat exchanger.outlet.temperature.is.less.than.1
 05.degrees.and.the.total.ICW.flow.is.less.than.19000GPM..à..
 ...àB.. ..àReduce.unit.load.using.3-GOP-103.to.limit.heat.inpu
 t.into.the.TPCW.until.theD... ..P... ..DTPCW.heat.exchang
 er.outlet..temperature.is.below.105.degrees...DO.NOT.throttle.ICW.flow
 to the.TPCW.system.heat.exchangers.using.3-50-401.until.the.total.ICW
 flow.is.less.than.19000GPM..à.. ..àC.. ..àReduce.unit
 load.using.3-GOP-103.to.limit.heat.input.into.the.TPCW.system.AND... ..
Læ... ..Dadjust.ICW.flow.to.the.TPCW.system.heat.exchanger
 s.using.3-50-401.until.the.TPCW.heat exchanger.outlet.temperature.is.b
 elow.120.degrees..à.. ..àD.. ..àAdjust.ICW.flow.to.
 the.TPCW.system.heat.exchangers.using.3-50-401.until.theD... ..¼...
DTPCW.heat.exchanger.outlet.temperature.is.below.120.degrees,DO
 .NOT.reduce.unit.load.àAàB,C,D.all.have.actions.that.are.not.requir
 ed.and.have.the.wrong.system.temperature,the.limit is.105.à3-ONOP-01
 9.Intake.Cooling.Water.Malfunction.àStep.4..Verify.Intake.Cooling.Wat
 er.Pumps--TWO.RUNNINGàRNO--Perform.the.following:àManually.s
 tart.any.available.Intake.Cooling.Water.Pump.to.establish.TWO.RUNNING.
 à.. ..àIF.only.one.ICW.Pump.is.operating.AND.total.ICW.flow
 is.greater.than.19,000D... ..#ð.\$... ..D.....GPM,THEN.immedi
 ately.reduce.total.ICW.flow.by:.. ..C.Throttling.TPCW.HX.Outlet.
 Combined.ICW.Iso.Vlv.3-50-401.while.maintaining.....TPCWHeat.Exchange
 r.outlet.temperature.less.than.105.degrees.à.....C.Throttle.3-50-4
 06,CCW.HX.Outlet.Spool.Piece.Bypass.Valve,and/or.3-50-407,à.....
CCW.HX.Outlet.Spool.Piece.Iso.Vlv,while.maintaining.minimum.ICW.f
 lowsà.....through.the.CCW.Heat.Exchangers.as.determined.by.Enc
 losure.1.ofà.....3-OP-019,INTAKE.COOLING.WATER.SYSTEM.àc).à.
àIF.unable.to.reduce.total.ICW.flow.through.a.single.ICW.Pump
 to.less.than.19,000.GPM,D... ..\+&-... ..DTHEN.reduce.Unit.
 Load.using.3-GOP-103,POWER.OPERATION.TO.HOT.STANDBY,to.limit heat.in
 put.into.the.TPCW.system.and.throttle.ICW.flow.to.the.TPCW.Heat.Exchan
 gers.usingTPCW.HX.Outlet.Combined.ICW.Iso.Vlv.3-50-4
 01.until.total.ICW.flow.is.less.than.19,000.GPM.àd).....IF.a.single
 .ICW.Pump.has.operated.at.flows.greater.than.19,000.GPM,à.....TH
 EN.refer.to.3-OP-019,INTAKE.COOLING.WATER.SYSTEM.à.. ..àAnswer:
 .à.. ..àAD... ..`1°,4... ..D†74.à.. ..àG2.4.5.....
001D... ..°.Dà... ..àThe.RCO.desires.to.enter.a.p
 rocedure.at.step.10...Which.one.of.the.following.conditions.wouldprev
 ent.this?à.. ..àA.. ..àThe.existing.plant.conditio
 ns.are.different.from.those.required.by.the.procedure.toD... ..ü.L.
Dperform.the.entry.step.à.. ..àB.. ..àAll.steps.p
 rior.to.the.entry.point.are.marked."N/A."D... ..à... ..D

àC.à. . . àThe NPS or cognizant Department Supervisor has approved and documented. . . H. . . the entry point including the reason for the special entry point. . . àD.à. . . àThe entry point and reason for the entry point is documented in the remarks. . . Ü, . . . section of the procedure. . . REF: 0-ADM-201, section 5.2 SOURCE: TP Bank for ADM-201, Q.69020030406/Q8.à. . . àAnswer:à. . . àAD. . . T. . . D75.à. . . àG 2.4.6. . . 001D. . . ¼. . . D.à. . . àSelect the EOP(s) that can be entered directly: . . . àA.à. . . àE-0 only. . . , . | . . . D.à. . . àB.à. . . àE-0 and FR-S.1D. . . ä.4. . . D.à. . . àC.à. . . àE-0 and ECA-0.0D. . . æ.i. . . D.à. . . àD.à. . . àE-0, ECA-0.0 and FR-S.1D. . . T. . . DC Entry conditions. . . àAnswer:à. . . àCD. . . è!8." . . . D76.à. . . à015K6.02. . . 001D. . . #ð.\$. . . D.à. . . àManual calibration of the NIS is being performed in accordance with 3-OSP-059.5, "Power Range Nuclear Instrumentation Shift Checks and Daily Calibration." Feed water average temperature is incorrectly calculated to a value 30 degrees less than actual. . . For these conditions which ONE of the following is correct? . . . Calculated reactor thermal power will be: . . . àA.à. . . àL POWER than actual power AND a gain adjustment of the NIS channels using the. . . \+&- . . . Dcalculated value would be CONSERVATIVE (indicated power closer to the setpoints). . . àB.à. . . àLOWER than actual power AND a gain adjustment of the NIS channels using the. . . ð-@)0 . . . Dcalculated value would be NON CONSERVATIVE (indicated power farther from the setpoints). . . àC.à. . . àHIGHER than actual power AND a gain adjustment of the NIS channels using the. . . „0+3 . . . Dcalculated value would be CONSERVATIVE (indicated power closer to the setpoints). . . D. . . 1°,4 . . . D.à. . . àD.à. . . àHIGHER than actual power AND a gain adjustment of the NIS channels using the. . . °. . . Dcalculated value would be NON CONSERVATIVE (indicated power farther from the setpoints). . . IISD004, EXCORE NUCLEAR INSTRUMENTATION, page 7374.3OSP59.5, POWER RANGE IN NUCLEAR INSTRUMENTATION SHIFT CHECKS AND DAILY CALIBRATION, Attachment 5.11992/04/20 Turkey Point 3&4 Modified stem, answer and all three distractors. . . àAnswer:à. . . àCD. D77.à. . . à079G2.2.27. . . 001D. . . 1.¼. . . D.à. . . àDuring refueling, the Unit 3 instrument air system is being supplied by an electric driven air compressor. . . Which one of the following conditions will cause the compressor to shut down and be locked out from restarting? . . . àA.à. . . àHigh LP (first stage) air outlet temperature. . . .ä. . . D.à. . . àB.à. . . àlow HP (second stage) air inlet temperature. . . L.æ. . . D.à. . . àC.à. . . àHigh oil pressure. . . T. . . D.à. . . àD.à. . . àhigh air outlet flow. . . ¼. . . D.à. . . àFrom System Description SD 155/SYS.013, 101: . . . Page 11 The compressor will shut down (and be locked out from restarting) under any of the following conditions: . . . high LP.

(low.pressure).air.outlet.temperature.(446) high.HP.(high.pressure).air.outlet.temperature.(446) high.HP.(high.pressure).air.inlet.temperature.(194) low.oil.pressure.(20.PSI) overload answer: 78.2.3.4.....001D. According to 0-ADM-600, "Health Physics Manual," which one of the following radiation exposures is an NRC exposure limit? A. 2.5 rem/yr TEDE to the whole body. B. 7.5 rem/yr to the lens of the eye. C. 18.75 rem/yr shallow dose equivalent to the hands and forearms. D. 50 rem/yr shallow dose equivalent to the skin of the whole body. REF: ADM-600, Attachment 1 SOURCE: modified Q.69020200903/q.109 of ADM section of bank. Changed correct answer to D, changed distractor A (formerly the correct answer) to incorrect - 5 rem/yr. D. 10,4. B. incorrect - 15 rem/yr. C. incorrect - 50 rem/yr. D. correct. Answer: D. D. 79.2.7K5.01.....001D. L. Removal of iodine from containment due to a large break. LOCA is essentially complete two hours after actuation of the emergency containment filtering system (ECF). Which one of the following describes why filter fan operation is necessary for up to 72 hours? A. Remove heat from containment. B. Remove radioactive particulate from containment. C. Remove iodine decay heat from ECF charcoal beds. D. Remove iodine decay products from containment atmosphere. C. CI*REFERENCE.....TURKEY.PT: SD.029, page 12. 1991/09/30 Turkey Point 3 & 4. Answer: C. t. 80.2.13K3.01.....001D. Operators have completed EOP-ES-1.3, "Transfer to Cold Leg Recirculation." CET temperatures are stable. The following events occur: The switchyard deenergizes resulting in a LOOP. All plant systems respond as designed. Assuming no operator action, which one of the following describes the effect on CET temperatures and the reason for that effect? CET temperatures will: A. decrease. Addition of SI flow to the RCS will be established. B. remain the same. SI flow to the RCS will remain unchanged. C. increase. SI flow to the RCS has been terminated. D. increase and then stabilize. SI flow to the RCS was momentarily interrupted. D. 0. ANSWER: 10,4. D. REFERENCE: Logic Sheet 5613-T-L1, Sheet 12A. E-1, ES-1.3 Foldout Page. Answer: C. h. 81.2.003A3.01.....001D. Unit 3 has had an inadvertent

t.Phase.A.Containment.Isolation.Actuation..Which.one.of.the.flow paths describes the effect on RCP seal leakoff flow? Assume no operator actions. Leakoff flow is: àA. à diverted to the suction of the charging pumps. H. àB. à isolated. P. àC. à diverted to the PRT. D. àD. à diverted to the VCT. p. À. DCI...ISD008, 3/5/93, page 12.&LPEO.5.ISG13-M-3047.Sheet.3I1994/02/28.Turkey.Point.3.&4....The.seal.water.return.line.is.equipped.with.a.motor.operated isolation valve (MOV-381) located outside the containment and a motor operated isolation valve (MOV-6386) located inside containment. These valves will automatically be closed on phase A of the containment isolation scheme and can be opened or closed manually from the P. D control panel (VPA) in the control room.

om. In the event of overpressure on the seal water return line, relief valves in the containment will relieve at 150 PSIG to the pressurizer relief tank. àAnswer: àC. à.4. à82. à071K4.05.....001D. àGas Decay Tank "A" is in service when the relief valve on that tank lifts and fails to reseal. Which one of the following is correct? àA. àThe release will be automatically isolated by RCV-014 when R-14, Plant Vent àB. àR-14, Plant Vent Monitor, will alarm and trip both Auxiliary Building exhaust fans, X% & Dterminating the release. àC. àThe release will not be automatically isolated, but monitored by R-14, Plant Vent àD. àThe release will be automatically isolated by the Unit 3 SFP Vent SPING4D. àMonitor. àDRWG.5610TE4517, SHT.1ISD068, RADIATION MONITORING AND PROTECTION, page 30. I1992/04/20..Turkey.Point.3.&4..New.distractor.D àAnswer: àC. à.2. à83. à035A4.06.....001D. àUnit 3 has experienced a steam generator tube rupture. Operators have entered 3-EOP-E-3, Steam Generator Tube Rupture. Which one of the following is the correct order to perform the recovery actions? àA. àIsolate the ruptured steam generator, reduce primary system temperature, then àB. àIsolate the ruptured steam generator, reduce primary system pressure, then àC. àReduce primary system temperature, reduce primary system pressure, then àD. àReduce primary system pressure, reduce primary system temperature, then àIsolate the ruptured steam generator. àEOP-E-3..WOG.Major.Action.Categories System Description--Therefore, it is important to identify and isolate the ruptured steam generator and reduce RCS temperature and pressure below the setting of the steam generator safety valves, 1085 PSIG. RCS temperature, then pressure, are lowered, maintaining the coolant in a subcooled

condition...Cooldown and depressurization of the S/G and RCS would be continued until RHR could be initiated. I à... àAnswer: à... àAD... P... D184. à... à061K4.07...001D... X... D à... àFollowing a mechanical overspeed trip of an AFW pump, which one of the following describes the effect on the pump if the governor manual speed control knob is not rotated to the minimum position? I If the governor manual speed control knob is not adjusted, the AFW pump: I à... àA. à... àmechanical overspeed trip mechanism will not reset. D... è!8." D I à... àB. à... àmay overspeed and trip again on subsequent restart. D... #ø.\$ D I à... àC. à... àmay overspeed and not trip on subsequent restart. D... X% & D I à... àD. à... àwill not attain rated speed on subsequent restart. D... ' "(D REFERENCE: à... à3-ONOP-075, Attachment 4, Step 5 Basis à... È... àà... àSD-117, Page 26 D... i'<#) D à... àAnswer: à... àBD... È(. \$* D I 85. à... à064G2.1.23...001D... *D%, D à... àYou are at the Alternate Shutdown Isolation Switch (XS-3DG) mounted on the side of Panel 3C12B1 located on the south wall of the 3B EDG room. You find the switch is in the NORMAL position. In this position the Alternate Shutdown Isolation Switch: I à... àA. à... àwill align EDG 3B indications on the Alternate Shutdown Panel. D... "/ø*2 D I à... àB. à... àwill not remove Control Room EDG Lockout reset pushbutton from circuit. D... `1ø, 4 D I à... àC. à... àwill remove normal lockout circuit fuses and insert backup lockout circuit fuses. D... °. D I à... àD. à... àwill alarm annunciator window F.2/3 REMOTE-LOCAL CONTROL IN LOCAL in D... h, D the control room. I B1SD-137W97. I The Alternate Shutdown Isolation Switch (XS-3DG) is mounted on the side of Panel 3C12B1 located on the south wall of the 3B EDG room. EDG 3A does not have this switch. This switch has two positions, NORMAL and LOCAL. When taken to the LOCAL position, the Alternate Shutdown Isolation Switch will: I I Align EDG 3B indications on the Alternate Shutdown Panel. I Remove Control Room EDG Lockout reset pushbutton from circuit. I Remove normal lockout circuit fuses and insert backup lockout circuit fuses. I Alarm annunciator window F.2/3 REMOTE-LOCAL CONTROL IN LOCAL in the control room. I à... àAnswer: à... àBD... " ä... D I 86. à... àG2.1.27...001D... L.æ... D à... àWhich one of the following includes acceptance criteria for the ECCS following a postulated Loss-of-Coolant Accident, as required by 10 CFR 50.46, "Acceptance criteria for emergency core cooling systems for light-water nuclear reactors?" I I The calculated maximum fuel element cladding temperature shall not exceed: I à... àA. à... à2200ø øF and calculated total cladding oxidation at any point shall not exceed 17%. D... ,. |... D I à... àB. à... à2200ø øF and calculated total cladding oxidation at any point shall not exceed 1% D... ä.4... D of the maximum possible. I à... àC. à... à2500ø øF and calculated total cladding oxidation at any point shall not exceed 17%. D... x.È... D I à... àD. à... à2500ø øF and calculated to

tal.cladding.oxidation.at.any.point.shall.not.exceed.1%Ð.. . .0 ..
. . Ðof.the.maximum.possible.ÎAÎREF:SD.021/SYS.050,.062,.064.2/6/9
8,.page.10..10.CFR.50.46Îa..Correct.per.10.CFR.50.46Îb..Incorrect,.in
.that.the.1%..number.applies.to.H2.generation,.found.elsewhere.in.50.4
6Îc..Incorrect--2500.a.bad.valueÎd..Incorrect--2500.a.bad.value.an
d.1%.applied.to.the.wrong.parameterÎà.. . . .àAnswer:à.. . . .àA
Ð.. . . .î'<#) . . . ÐÎ87.à.. . . .à041A4.05.....001Ð.. .
. .)ô\$+ . . . Ðà.. . . .àÎPlant.conditions:ÎÎ--The.reactor.is.critic
al.at.1.0.E-8.amps.at.the.end.of.core.life.Î--ONE.S/G.atmospheric.st
eam.dump.fails.open.ÎAssume:no.operator.actionÎ.....no.rod.
motionÎ.....no.reactor.tripÐ.. . . .`1°,4 . . . ÐWhich.on
e.of.the.following.describes.Tave.and.reactor.power.five.minutes.into
this.transient?Î....Îà.. . . .àA.à.. . . .àTavg.will.be.greate
r.than.initial.Tavg,reactor.power.will.be.above.the.point.ofÐ.. .
.h.,. . . .Ðadding.heat.ÎÎà.. . . .àB.à.. . . .àTavg.will.b
e.greater.than.initial.Tavg,reactor.power.will.be.at.the.point.of.add
ingÐ.. . . .ü.L.. . . .Ðheat.ÎÎà.. . . .àC.à.. . . .àTav
g.will.be.less.than.initial.Tavg,reactor.power.will.be.at.the.point.o
f.addingÐ.. . . .à.. . . .Ðheat.ÎÎà.. . . .àD.à.. . . .àTav
g.will.be.less.than.initial.Tavg,reactor.power.will.be.above.the.poin
t.of.a
ddingÐ.. . . .\$.tÐheat.ÎDÎ.....ÎTURKEY.PT:SD105Î1991/09/
30.....Turkey.Point.3.&.4Îà.. . . .àAnswer:à.. . . .àDÐ.. .
.Læ.. . . . ÐÎ88.à.. . . .àG2.4.20.....001Ð.. . . .T.
. . . . Ðà.. . . .àÎWhile.performing.4-EOP-ES-1.3,"Transfer.to.Cold.L
eg.Recirculation,"and.after.placing.theÎcontrol.switches.to.the.CLOSE
.position.for.the.RHR.suction.from.the.RWST.valves,ÎMOV-4-862A.and.MOV
-4-862B,the.ANPS.reads.the.following.CAUTION:ÎÎ....."DO.NOT.CONTINUE.
until.RHR.pump.suction.is.isolated.from.the.RWST"ÎÎWhich.one.of.the.fo
llowing.describes.the.consequences.of.continuing.in.ES-1.3.before.theÎ
MOV-862.A&B.valves.are.fully.closed?ÎÎà.. . . .àA.à.. . . .àIf
.the.containment.pressure.is.greater.than.the.RWST.pressure,.contaminat
edÐ.. . . .x.È.. . . .Ðsump.water.will.flow.from.the.containment
.to.the.RWST.ÎÎà.. . . .àB.à.. . . .àIf.an.RHR.pump.is.restarted
.before.the.MOV-862.A&B.valves.are.fully.closed,theÐ.. . . .!\
! . . . ÐRHR.pump.will.not.have.adequate.NPSH.ÎÎà.. . . .àC.à.. . . .
.àIf.high.head.SI.pumps.are.running,they.will.short.circuit.flow.bac
k.to.the.RWST,Ð.. . . .#ô\$. . . .Ðrobbing.the.reactor.of.cooling.fl
ow.ÎÎà.. . . .àD.à.. . . .àThe.RHR.pumps.are.interlocked.with
MOV-862.A&B.such.that.the.RHR.pumpsÐ.. . . .4&„!' . . . Ðcannot.be
.started.until.the.MOV's.are.completely.closed.ÎAÎLesson.Plan.330,.pag
e.24,.ES1.3,.caution.prior.to.step.13Îà.. . . .àAnswer:à.. . . .à
AÐ..)ô\$+ ÐÎ89.à.. . . .à006K4.14.....001Ð.
. . . .\+~&- Ðà.. . . .àÎDuring.the.recirculation.phase.of.EC
CS.operation.following.a.Large.Break.LOCA.on.Unit.3,Îadequate.RHR.flow
.can.not.be.verified..Which.one.of.the.following.actions.should.be.ta
ken?ÎÎOne.HHSI.pump.is.used.with.suction.taken.from.the:Îà.. . . .àÐ..
. . . .„0Ô+3 Ðà.. . . .àA.à.. . . .àsuction.of.the.RHR.
pump..The.RHR.pump.will.take.suction.from.the.normal.loopÐ.. . .
.°. . . . Ðà.. . . .àC.hot.leg.suction.ÎÎà.. . . .àB.à.. . .
.àdischarge.of.the.RHR.pump..The.RHR.pump.will.take.suction.from.the

normal.

. . . D." . . . loop.C.hot.leg.suction. àC. . .
. àsuction.of.the.RHR.pump..The.RHR.pump.will.take.its.suction.from.the
he . . . Ø (. . . containment.recirculation.sumps. . .
. . . àD. . . . àdischarge.of.the.RHR.pump..The.RHR.pump.wi
ll.take.its.suction.from.the . . . 1.¼ . . . containment.rec
irculation.sumps. . . Solution: . . . D Waters.source.is.SUMP..From.system.descr
iption.another.water.source.for.other.situationsIwould.be.as.follows: .
To.fill.the.cavity,.the.RHR.pump's.suction.is.aligned.to.the.RWST.thro
ughMOV-862A.&.B..The.discharge.is.aligned.to.the.cold.leg.injection.
headers.through.MOV-744A&.B..When.the.cavity.is.full.the.RHR.pump's
suction.is.shifted.back.to.the.normal.loop.C.[A].hot.leg.suction.throu
gh.MOV-750.&.MOV-751.and.normal.decay.heat.remove . . . dal.is.reinitiated.
. . . p. . . . During.the.recirculation.phase.of.ECCS.operation
.which.would.normally.only.occur.after.a.largebreak.LOCA,.the.preferre
d.alignment.is.RHR.pumps.delivering.flow.from.the.recirculation.s
umps.to.the.RCS.with.the.SI.pumps.secured..If.adequate.RHR.flow.canno
t.be.verified,.then.the.higherhead.SI.pumps.are.used.with.suction.tak
en.from.the.discharge.of.the.RHR.pumps..The.RHR.pumps.will.still.be.t
aking.their.suction.from.the.containment.recirculation.sumps.SYSTEM. . .
DESCRIPTION.NO..021..EMERGENCY.CORE.COOLING.SYSTEM/(SYS..050,.062,.064
). . . EOP-ES-1.3.Step.17.and.BD-EOP-ES1.3.page.35. . .
. . . àD. . . . À . . . 90. . . 004G2.4.21. . .
. . . 001. . . x. Operators.are.monitoring.gri
d.instability.and.are.in.the.process.of.placing.a.CVCS.mixed.beddemin
eralizer.with.new.resin.into.service.when.the.RO.notes.the.following.p
rimary.systemparameters: . . . C..Reactor.power.is.101.2%.and.increasi
ng. . . C..Tavg.is.577.degrees.F.and.increasing. . . C..Gross.megawatts
have.increased.by.2.MWe.without.operator.action. . . C..Rod.control.is
in.manual. . . Which.ONE.of.the.following.describes.the.most.probable.cau
se.of.these.plant.conditions? . . .
. . . àCV-3-2011,.Low.Pressure.Heater.Bypass.valve.has.inadvertent
ly.opened.
.demineralizer.was.not.sufficiently.rinsed.in.prior.to.placing.it.in.s
ervice.
.resin.was.placed.in.the.demineralizer.
. . . àD. . . . Only.Anion.resin.was.placed.in.the.demineralizer. . .
. . . . I.*1 . . . 1°,4 . . . 30P047,.P&L.4.141996/06/
17. . . Turkey.Point.3.&.4. . .
.h. . . 91. . . 062K3.01. . . 001. . . p.
. The.West.operating.buses.in.the.switchyard.are.con
nected.through.the.West.operating.bus.tiebreaker..A.fault.occurred.o
n.one.of.the.west.buses..What.will.the.automatic.protection.schemeI
do? . . . The.protection.scheme.will.open.and.lockout.all.the.breakers.con
nected.to: . . .
. the.failed.west.bus.only,.but.will
not.open.the.tie.breaker.
.
. the.failed.west.bus.only,.and.open
the.tie.breaker.
.
h.west.buses,.and.open.the.tie.breaker.
.

W97....The yard consists of four operating buses, the Southeast, the Northeast, the Southwest, and the Northwest...Refer to 5610-TE-1591...The four operating bus scheme provides more flexibility for yard maintenance, and better protection in the event of a fault on one of the buses...The two East operating buses and the two West operating buses are normally connected through circuit breakers and are referred to as the East and West operating bus...Should a fault occur on one of the four buses, the protection scheme will open and lockout all the breakers connected to the bus, and open the tie breaker; thereby, isolating the faulted bus from the other three operating buses...Generator circuit breakers can only be opened or closed from the respective control room or tripped locally at the breaker or by automatic action by protective relaying equipment.à... àAnswer:à...
àC... T... à92.à... à056K1.03.....001D...
...!\... à... àDuring start-up of a main feed pump, the main feed pump...à... àA... àmust have its discharge valve throttled to 14 turns open.D... |\$ %... à...
àB... àis allowed two successive starts from rated temperature.D... 4&„!'... à... àC... àshould be allowed to coast to rest between starts.D... '(<#)... à...
àD... àshould be left running for 1/2 hour after two successive starts prior to a third start.D...)ô\$+... àCISD.112/SYS.073, 074. Page 23...3-OP-074. Step 4.1.4...à... àAnswer:à...
àC... "/ø*2... à93.à... à029A3.01.....
...001D... `1°,4... à... àWhich one of the following will directly cause a Containment Ventilation Isolation?à... àA...
àAutomatic Phase A Containment Isolation SignalD...
D..."... à... àB... àAutomatic Phase B Containment Isolation SignalD... ü.L... à... àC...
àSafety Injection SignalD... '..... à... àD...
àContainment High Range Radiation Monitor (CHRRMS) alarmD...
1.¼... àCISD-029W7... àContainment ventilation isolation trips both supply and exhaust fans and shuts all supply and exhaust butterfly valves...Containment ventilation isolation is initiated by:à(1)...Hi containment activity from R-11 particulate at 6.1 x 105 cpm(2)...Hi containment gaseous activity from R-12(3)...Safety Injection Signal (auto or manual initiation)à(4)...Phase A isolation (manual P.B.)à(5)...Phase B isolation (manual P.B.)à... àAnswer:à... àC...
à0... à94.à... à056A2.04.....001D...
~.è... à... àWhich one of the following describes the expected plant response to an overcurrent trip of a running condensate pump at 100%
power with the 3C condensate pump out of service?à.....à...
àA... àThe associated steam generator feed pump will trip and initiate a turbineD... à4... àRunback.à... àB...
àThe standby steam generator feed pump will automatically start upon trip of theD... x.È... àRunning condensate pump.à...
àC... àCV-3-2011, LP Heaters Bypass, will automatically open and will maintainD... !\... àadequate suction pressure to run both steam generator feed pumps.à... àD...

• àHeater•drain•pump•discharge•valves•will•automatically•open•
 and•will•maintain• • • #ø•\$ • • • àadequate•suction•pressure
 •to•run•both•steam•generator•feed•pumps.ÏAÏDwg.5610TL1,•sheet.28A.Ï
 1996/06/17.....Turkey•Point.3.&4.....ÏE.O.6.of.LP.6902122ÏÏ1991/09/3
 0.....Turkey•Point.3.&4.ÏÏPlease•identify•nomenclature•for•valve•
 CV32011Ïà• • • • àAnswer:à• • • • àAD• • • • 8,^' • • • • ÏÏ
 95.à• • • • à072A4.01.....001D• • • • •ø-@)0 • • • • •à• • • •
 • àÏFoll
 owing•an•area•radiation•monitor•alarm•in•the•Unit.3.spent•fuel•pit,•wh
 ich•one•of•the•followingÏis•a•required•IMMEDIATE•action•per•0-ONOP-066
 ,•"High•Area•Radiation•Monitoring•SystemÏAlarm"?D• • • • •1°,4 • • • • D†
 à• • • • àA.à• • • • • àEvaluate•process•monitors•and•other•ARMS•fo
 r•the•affected•area.D• • • • •° • • • • •DÏà• • • • •àB.à• • • • •
 • àNotify•the•SNPO•to•check•local•indications.D• • • • •h, • • • • •DÏ
 à• • • • •àC.à• • • • • àIdentify•alarming•ARMS•channel(s)•by•pressi
 ng•the•ACK•pushbutton•on•ARMSD• • • • •p • • • • •Dcontrol•panel•R-3
 0.ÏÏà• • • • •àD.à• • • • • àNotify•Health•Physics•to•survey•the
 •area•to•determine•the•source•of•the•radiation.D• • • • •' • • • • •D
 ••Ï••Ï0ONOP066,•High•Area•Radiation•Monitoring•System•Alarm,•page.4Ï1
 996/06/17.....Turkey•Point.3.&4.....New•answer•and•two•new•distractor
 s.ÏEvaluation:ÏÏA•and•B•are•not•immediate•actionsÏThe•Immediate•action
 s•of•0-ONOP-66•are:Ï4.0•IMMEDIATE•ACTIONSÏ4.1•Identify•alarming•ARMS•c
 hannel(s)•by•noting•individual•channel(s)•HIGH•alarm•light(s)Ï
 illuminated•on•Area•Radiation•Monitoring•System•control•panel•R-30.Ï4.
 2•Announce•over•the•plant•page•system•the•area(s)•affected•AND•notify
 personnel•to•clear•the•area•until•further•notice.Ï4.3•Notify•Health•Ph
 ysics•to•survey•the•area•to•determine•the•source•of•the•radiation.ÏÏC.
 is•not•an•immediate•action•and•is•prohibited•by•a•procedure•NOTE.ÏNOTE
 ÏDo•NOT•press•ALARM•ACK•pushbutton•on•ARMS•control•panel,•R-30,•until:
 Ï1. Personnel•have•been•evacuated•from•the•affected•area•and•entry•to
 the•area•has•beenÏrestricted.ÏORÏ2. The•alarm•has•been•determined•to•b
 e•an•invalid•alarm.ÏÏà• • • • •àAnswer:à• • • • •àD• • • • •T α.
 • • • • •DÏ96.à• • • • •àG2.1.32.....001D• • • • •!\\! • • • • •à
 • • • • •àÏThe•following•conditions•exist:ÏÏ••C••Unit.3•is•at•100%•p
 ower.Ï••C••3A•EDG•surveillance•is•in•progress•and•3A•EDG•is•fully•loa
 ded.Ï••C••The•system•load•dispatcher•has•notified•the•site•that•off-s
 ite•power•is•unstable•dueÏ.....to•severe•storms•in•the•area•but•tha
 t•the•front•should•move•through•in•30•minutes.Ï
 ••C••Electrical•maintenance•has•requested•that•Operations•start•the•3A
 •and•stop•the•3BÏ.....condensate•pumps•to•support•motor•filter•chang
 e•out.ÏÏWhich•one•of•the•following•describes•a•correct•operator•action
 •in•this•situation?ÏÏà• • • • •àA.à• • • • •àAuthorize•swapping
 condensate•pumps•to•support•Electrical•maintenance.D• • • • •8,^'
 • • • • •DÏà• • • • •àB.à• • • • •àDefer•swapping•condensate•pumps•unt
 il•3A•EDG•surveillance•is•complete.D• • • • •ø-@)0 • • • • •DÏà• • • • •
 • • • • •àC.à• • • • •àStop•the•EDG•surveillance•test•because•the•EDG•will
 •be•overloaded•if•a•SI•SignalD• • • • •"/ø*2 • • • • •Doccurs•while•it•i
 s•tied•to•the•bus.ÏD• • • • •1°,4 • • • • •à• • • • •àD.à• • • • •
 • àDefer•swapping•condensate•pumps•until•System•reports•that•the•sever
 e•stormsD• • • • •° • • • • •àare•no•longer•threatening•offsite•power.Ï
 BÏReference.3-OSP-0231,•Caution•Prior•to•Step.29Ïà• • • • •àAnswer:à

.. ,.. àBD.. . . . p.. . . ÐÌ97.à.. ... à001A2.16.....
 ...001Ð.. . . Ø (.. . . Ðà.. ... àÌA.logic.error.has.sent.a
 .simultane
 ous.zero.current.order.to.both.stationary.and.movable.gripper coils...
 If.this.is.not.detected.and.corrective.action.completed.before.bridge
 thyristors.cut.the current.to.zero,what.will.occur?Ìà.. ... àA.à
 . . . àThere.will.be.excess.ripple.in.the.coil.voltage.Ð.. .
 . . P.. . . ÐÌà.. ... àB.à.. . . . àA.dropped.rod.will.occur.Ð.
 . . . ,.... . . ÐÌà.. ... àC.à.. . . . àThe.power.cabinet.w
 ill.be.overloaded.Ð.. . . p.À.. . . ÐÌà.. ... àD.à.. .
 . àThe.lift.coil.will.be.energized.preventing.motion.Ð.. . . (x.
 . . . ÐBÌSD-005W97ÌA..A.phase.failure.occurs.because.of.a.loss.of.t
 hyristor.gating.or.thyristor.failure..This.will cause.excess.ripple.i
 n.the.coil.voltage.ÌB..A.logic.error.is.a.simultaneous.zero.current.
 order.to.both.stationary.and.movable.gripper coils...If.this.is.not.de
 tected.and.corrective.action.completed.before.bridge thyristors.cut.th
 e current.to.zero,a.dropped.rod.will.occur.ÌC..A.multiplexing.error
 .occurs.when.coils.not.selected.by.the.multiplexing.function.are.r
 eceiving current.to.their.movable.or.lift.coils...This.assumes.station
 ary.coil.stays.at.low.current.value..This.protects.against.a.failed.m
 ultiplexing.thyristor.which.could.cause.overloading.the.power cabinet.
 ÌD..The.system.will.automatically.respond.to.any.detected.failures.by
 .energizing.both.the stationary.and.movable.gripper.coils.on.low.curre
 nt.to.try.to.prevent.dropping.rods..It.will.send an.inhibit.signal.to
 .the.pulser.to.stop.rod.motion,in.auto.or.manual,but.still.allow.ind
 ividual.bank movement..If.one.of.the.two.groups.in.the.bank.is.in.the
 .affected.cabinet.it.will.not.move because.the.stationary.and.movable
 gripper.will.be.energized.preventing.motion.Ìà.. ... àAnswer:à..
 ,.. àBD.. . . . '"(. . . ÐÌ98.à.. ... à027AK3.03.....001Ð.
 . . . È(\$* . . . Ðà.. ... àÌFollowing.a.SGTR,the.ANPS.transitio
 ned.to.3-EOP-ECA-3.3,"SGTR.Without.Pressurizer Pressure.Control."..SI
 .was.terminated.in.3-EOP-FR-P.1,"Response.to.Imminent.Pressurizer The
 rmal.Shock.Condition."..Step.1.of.3-EOP-ECA-3.
 3.states:ÌÌð=ðCheck.HighHead.SI.Pumps..Any.Running.ð=ðÌYou.are.the
 n.directed.to.bypass.the.steps.that.establish.Normal.and.Auxiliary.spr
 ay..Which.one.of.the.following.is.the.purpose.for.bypassing.these.ste
 ps?ÌÔ_ ÔÐ_ `1°,4 . . . Ðà.. ... àA.à..
 . àImmediate.need.for.Ô_ ÔRCSÔ_ Ô.pressure.con
 trol.no.longer.exists.Ð.. . . . ÐÌà.. ... àB.à..
 . àÔ_ ÔRCSÔ_ Ô.pressure.is.being.controlled.by
 .both.normal.and.auxiliary.spray.that.wasÐ.. . . . h.. . . . Ðe
 stablished.in.3-Ô_ ÔEOPÔ_ Ô-FR-P.1.Ìà..
 . àC.à.. . . . àÔ_ ÔRCSÔ_ Ô.pressure.is.bei
 ng.controlled.only.by.auxiliary.spray.that.was.established.inÐ.. .
 . ü.L.. . . Ð3-Ô_ ÔEOPÔ_ Ô-FR-P.1.Ìà.. ...
 àD.à.. . . . àOnly.normal.spray.was.established.in.3-Ô_ . . .
 . . ÔEOPÔ_ Ô-FR-P.1.Ð.. . . . à.. . . . Ð3-Ô_
 ÔEOPÔ_ Ô-Ô_ ÔECAÔ_ Ô-3.3,and.B
 D-Ô_ ÔEOPÔ_ Ô-Ô_ ÔECAÔ_
 . Ô-3.3.ÌÌA.Correct.answer--from.BD-Ô_ ÔEOPÔ_
 Ô-Ô_ ÔECAÔ_ Ô-3.3...-Ô_ ÔRCSÔ_

. and ruptured generator pressures have equalized through
 the ruptured steam generator tube and immediate need for
 RCS pressure control no longer exists.
 RCS was depressurized to decrease
 RCS subcooling in 3-F
 R-P.1. Pressure control is not an immediate concern since the SG
 and RCS are at approximately the same
 pressure. RCS was depressurized to de
 crease RCS subcooling
 in 3-FR-P.1. Pressure control is not an immediate
 concern since the SG and RCS are at ap
 proximately the same pressure.
 RCS was depressurized to decrease
 RCS subcooling in 3-FR
 -P.1. Pressure control is not an immediate concern since the SG a
 nd RCS are at approximately the same p
 ressure. RCS was depressurized to dec
 rease RCS subcooling
 in 3-FR-P.1. àAnswer: à àAD
 t. DI99. àW/E08EK2.1 001D ,
 D àOperators are performing 3- EOP
 -FR-P.1, "Response to Imminent Pressurized Thermal Shock
 condition." You cannot verify steam supply is aligned to both trains o
 f AFW pumps from the intact S/
 GS Which one of the following describes the
 procedurally required actions for this condition? àA.
 àDispatch operator to close
 AFW pump steam supply MOV breaker on faulted
 DS/G. àB. àDispatch operator t
 o open pump steam supply MOV on faulted S/G. " DI
 àC. àIsolate steam flow to AFW
 pumps while repositioning AFW
 steam supply | \$ % cross-connect valves to p
 rovide steam to intact S/ GS
 àD. àMaintain steam flow to AFW
 pumps while repositioning AFW
 steam supply ' ' " (. cross-connect valves to provide s
 team to intact S/ GS DI This is
 required to be open, but only after Maintain steam flow to
 AFW pumps while reposition
 AFW steam supply cross-connect valves to provide stea
 m to intact S/ GS
 d. This is required to be closed, but only after Maintain steam f
 low to AFW pumps while reposition
 AFW steam supply cross-connect valves
 to provide steam to intact S/ GS
 is completed. 1°, 4 DC. Step 3, EOP
 -RF-P.1, maintain steam supply while repositioning cross
 connect Correct answer àAnswer: à àDD
 D DI100. à059A4.11 001D L.
 D àUnit 3 experienced a LOCA

• • • • • Resulting in SI actuation. • • • Reactor trip breakers failed to open and all attempts to open the reactor trip breakers have been unsuccessful. • • • All S/G levels are below the narrow range. • • • While in FR-S.1, "Response to Nuclear Power Generation/ • • • • • ATWS • • • • •
 • • • • • operators reset SI. • • • Which one of the following describes the effect on the • • • • • feedwater • • •
 • • • • • flow control valves when SI is reset and the correct operator response? • • • The • • • • • feedwater • • • • • flow control valves will: • • • • •
 • • • • • A. • • • • • are open. • • • Place the • • • • •
 • • • • • feedwater • • • • • flow controllers in Manual and close the valves. • • • • •
 • • • • • T. • • • • • is • • • • • A. • • • • • are open. • • • Allow the • • • • • feedwater • • • • • flow control valves to remain open to restore S/G • • • • • level. • • • • •
 • • • • • C. • • • • • remain closed. • • • Place the • • • • • feedwater • • • • • flow controllers in Manual and open the • • • • •
 • • • • • P. • • • • • valves to restore S/G level. • • • • • D. • • • • •
 • • • • • remain closed. • • • Allow the • • • • • feedwater • • • • •
 • • • • • flow control valves to remain closed. • • • • • 4. • • • • • DA
 • • • • • D. • • • • • A. • • • • • D. REFERENCE: • • • • •
 • • • • • EOP • • • • • FR-S.1, CAUTION before Step 7 • • • • • x. • • • • •
 • • • • • D. • • • • • EOP • • • • • E-O, Step 5 • • • • • T-L1, Sheet 14 • • • • •
 • • • • • Feedwater • • • • • Heater Bypass • • • • • The low pressure • • • • • feedwater • • • • • heaters can be paralleled by flow through CV 2011. • • • • • in the event of low suction pressure to the • • • • • feedwater • • • • • pumps. • • • • • Refer to Figure 11. • • • • • Control valve CV2011 is actuated to open by pressure switch PS2011 or • • • • • PS2014 when • • • • • feedwater • • • • • pump suction pressure drops to 220 • • • • • PSIG • • • • • In the open direction, CV2011 has a fast response time and goes to full open almost immediately. • • • The opening of CV2011 parallels the LP heaters and supplies condensate directly to the suction of the • • • • • feedwater • • • • • pumps. • • • • • CV2011 is also actuated by PS1604 with a fast load reduction. • • • Maintain CV2011 open until the load reduction stops or until the • • • • • feedwater • • • • • pump suction pressure increases to above 226 • • • • • PSIG • • • • •
 • • • • • at which time it is manually closed.
 by means of the control switch. • • • In the close direction, CV2011 is adjusted to close slowly. • • • It takes 60 seconds for the valve to go fully closed. • • • The valve does not automatically close. • • • • • Answer: • • • • • A. • • • • • /ø*2 • • • • •