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Form 2	2	Unrevi	ewed Safety Q	uestion Evaluation	n Form	Page 1 of 4
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NOTE: Use a	additional sh	eets as necessan	y to provide the b	08505.		
1 1	probabili	subject of this ev y of occurrence o d in the Safety An	f an accident pre	viously	YES	- NO
Bases:	existing of	iginal fitting and w	as hydro tested i Therefore, this c	the same function, at 5000 psig. It fulf change does not inc	exhibits similar r	nction of the
ll	conseque	subject of this ev ences of an accid- y Analysis Report	ent previously ev	aluated in	YES	V NO
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111	probabilit	subject of this ev y of occurrence o t to safety previou Report?	f a malfunction o	f equipment		
Bases:	in this are	ea. Therefore, thi	s change does n	o. 3. There is no of ot increase the prof by previously evaluated	bability of occurr	ence of a
IV	consequi	subject of this ev ances of a malfun previously evalua	ction of equipme	nt important	and the manufacture can be a set of the set	
Bases:	bounded	by the Small Brea	ak LOCA. There	alety in the area. T fore, this change do safety previously en	he effect of the soos not increase	the consequences

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Form 2		Unrevi	ewed Safety Qu	estion Evaluation	n Form	Page 2 of 4
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A.2 I	Does the of a difference of a	ne subject of the eve lerent type than any ?	aluation create the previously evaluation	e possibility of an a lated in the Safety	Analysis	
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	type of	he subject of this ev malfunction than ar	aluation create the second sec	ne possibility of a d	ifferent y Analysis	
Bases:	not in does	r eplacement fitting is ms the same function pact other safety-re not create the possi afety Analysis Repo	on as the origina plated equipment bility of a differer	fitting. Failure of the from performing it	similar material si he split nut comp s function. There	ression fitting will
A.3 I Bases:	defined	he subject of this ev d in the basis for any echnical Specificatio	/ Technical Spec	Ification?		es 🛛 NO

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Form 2	Unrevi	ewed Safety Que	estion Evaluation	Form	Page 3 of 4
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Originating Document:	DCP 95-11258-64	UFSAR CN#2026	Rev. No.	0	-
	SAFE	TY EVALUATI	ON SUMMARY	,	
DESCRIPTION OF CHANG	<u>SE</u>				
DCP 95-11258-6 proposes Bottom Mounted Instrumen compression nuts were four	(BMI) inimple guid	le tubes with an al	ision nuts in the Ind ternate split nut de	core Neutron Fix sign. During 1F	x Monitoring System E06 several of the
The split nut design perform cylindrical compression nut by two alien head bolts (Rei disassembly of the thimble i	(Ref. Figure 1), the I. Figure 2). This de	alternate nut desi asign allows the co	an consists of two	half cylindrical r	incost fastened togethe
The use of the alternate spi (SAR). A drawing of the se NRC as part of WCAP-1186 Equipment Codes and Class ASME Section III, Class 1. ASME material as allowed I component and material as exemption for the flux thimb	al table configuratio 52 (ref. letter ST-HL slfication List Westi However, the split by ASME XI. There shown in UFSAR (	on which shows the -AE-2737 dated J inghouse Supplied nut is not an ASMI fore, this table ne CN 2026. In additi	e original compress uly 18, 1988). In a LNon-fluid System E III Class 1 compo eds to be revised to on, this change pro	sion nuts design ddition, UFSAR <u>Components</u> , is ponent and was r preflect the use pyldes for the As	was transmitted to the Table 3.2.B-2, sts the guide tube as not fabricated from of non ASME
INCORE FLUX MONITORI	NG SYSTEM COM	PONENTS AND	FUNCTION		
The incore Neutron Flux Ma and transfer system to posit the core. The core neutron factors, determine the three Excore Nuclear instruments control.	tion movable neutro flux Information Is t dimensional fission	on detectors in the used to confirm the power distributio	core to measure the reactor core desk n in the core, calcu	ne neutron flux ( on parameters, late fuel bumup	Sistribution throughout calculate hot channel and calibrate the
The Movable Fission Cham which are inserted into the r vessel through concrete shi the reactor vessel, with the	eld to a thimble sea	h BMI Thimble Gu al plate (table). Th	de Tubes which en e BMI Thimble Gui	dend from the b	ottom of the reactor
The detector thimbles are c	losed at the reactor	end and serve as s between the thin	a pressure barrier	between RCS	pressure (2500 psig

nan population and an an and an and a statements. Ac	OPO	GP05-ZA-00	02	Rev. 4	
	11	10CFR50.59 Ex	aluations	L	
Form 2	Unrevie	wed Safety Que	stion Evaluatio	n Form	Page 3 of 4
Unreviewed Safety Que	istion Evaluation #	96-0027	Rev. No. 0	Page	· of
Originating Document:	DCP 95-11258-6/U	IFSAR CN#2026	Rev. No	0	
	SAFET	TY EVALUATI	ON SUMMAR	Y	
The BMI Thimble Guide Tu RPV bottom head penetrat series of 3 shorter sections by compression type fitting	ions. Fifty-eight Guk	de Tube are provi	ded in the bottom	of the reactor ve	ssel. Each tube is a
In the normal operation, the The ten-path transfer devic the top of the specified pos assembly.	e directs the detecto	r into one of ten s	pecific positions	in the core. Or be	the detector reaches
If a reactor coolant leak shi abnormal radiation levels w drain header connecting th push-button mounted on th a leak, the water level will r	within the incore room e 10-path transfer de le distribution panel in	n, or difficulty of de evices, a pressure in the control room	elector Insertion. witch, dralnage . When liquid co	The leak detection solenoid valve, a plects in a 10-path	on system consists of a
Manual isolation valves and devices on each thimble. I moveable detector forces to detector is retracted, the m	During normal operat he ball away from the	ion the ball check e magnet into a p	valve is held clo ocket, allowing fr	sed by an installe se passage of the	d magnet. The detector, When the
GENERAL DESIGN REQU	JIREMENTS AND P	ARAMETERS AN	ALYSIS		
The BMI Thimble Guide Tu Tubing are the compressio the Reactor Pressure Vess	n type swagelock fitt	ings attached to t	he tubing end at I	the seal table, and	on the socket weld at
The BMI Thimble Guide Tu upset, emergency, faulted, are considered an Upset C Coolant Accident (LOCA) a	and test conditions. condition. The Ancho	The Anchor Disp or Displacement E	lacement Effect (	of the Operating B	asis Farthquake (ORF)
A review of the stress report analysis is still bounding. A performed. The results sho response to unacceptable DCN 96-03713).	An analysis of the add ow that an additional	ditional weight fro split nut weight o	m the alternate d f approximately 7	esign split nut effe	ect on the tubing was red to affect the seismic
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Unreviewed Safety Questi	Unreviewed Safety Que	estion Evaluation	n Form	Page 3 of 4
	Construction of the other states of the other	Rev. No. 0	Page	
Originating Document: D	CP 95-11258-6/UFSAR CN#2026	Rev. No.		
	SAFETY EVALUATIO	ON SUMMARY		
A 1937 Minimum yield of 2 stem design pressure.) Since right exists. (Ref. Calc. 0090- an operating plant South Tex. Summer of 1983 Addenda). Exemption for piping compone epi that materials and primary e. Detailed stress analysis a SME Section XI Interpretation irements are exempted unde faterial Certification or Certific then stamping, and (e) Section ing and brazing personnel qui A 4600 are not required. This option. Using this exemption, red to meet the Code of Consistent with the C shall be consistent with the C eplacement material for the sp em was supplied as Safety-R ion CW which was purchased al with a Certificate of Conford 45,000 psi and ultimate tensis blies has been demonstrated rangement was pressure test	bounded by the ultimate bursting p tubing material to a pressure of 16 al water pressure load of 16,600 ps 6 ksl, first yield would occur at 900 e the maximum design pressure of 1-00014WN, Appendix A; DCN 96 as Project falls under the jurisdictio The replacement rules of the ASN ants 1-inch or less as follows: "pipin" stress levels shall be consistent w nd consideration of secondary stress s XI-1-89-04 which states that regar r Section IWA-7400: (a) procurem the cf Compliance; (c) third party I in XI pressure testing. Interpretation alification, NDE requirements and the s interpretation also clarifies that in the split nut assemblies, flux tubin truction requirements for this repla Construction Code. Dilit nut is ASTM A479 type 316,310 elated Quality Class 4 Material with under P.O. RS-9360. This item w mance. Site tensile tests of 3 cap is the strengths above 120,000 psl. The to be consistent with Code of Con ed at 5,000 psl with no leakage. The 0090-1-00014WN, Appendix A) shifts the requirements of ASME Section	ig. (This is based 0 psi, which still pr the Reactor Coole -03713). In of ASME Section IE Section XI, Cool 9, valves, and fitti 7th the requirement stant requirement stant requirement and less of the Cool ent from Material I nspection; (d) proc n XI-1-83-86R state for thems in IWA 74 strument tubing is g, fittings and flux cement, except th 6L which was purch a CMTR. The fat (as supplied as Sate screws from the lo be material strengt struction materials	on actual tested on actual tested rovides a large m ant system is 240 n XI (specifically; de Paragraph IW) ngs 1 in. nominal nts of the applical This exemption e of Construction Manufacturers or Curement from a lates that weld rep 100(d) the installa included in the 1 thimble guide tut at the materials a chased under P.C istener material k lety-Related Quit t of material had th of the caps sor	the 1983 Edition A 7400 (d) provide pipe size and less ble Construction is further clarified the following Material Suppliers Certificate Holder bair programs, ation requirements -Inch and less bing are not and primary stress 0. QS0004758. S ASTM F837 ality Class 4 yield strengths ev/s and split nut

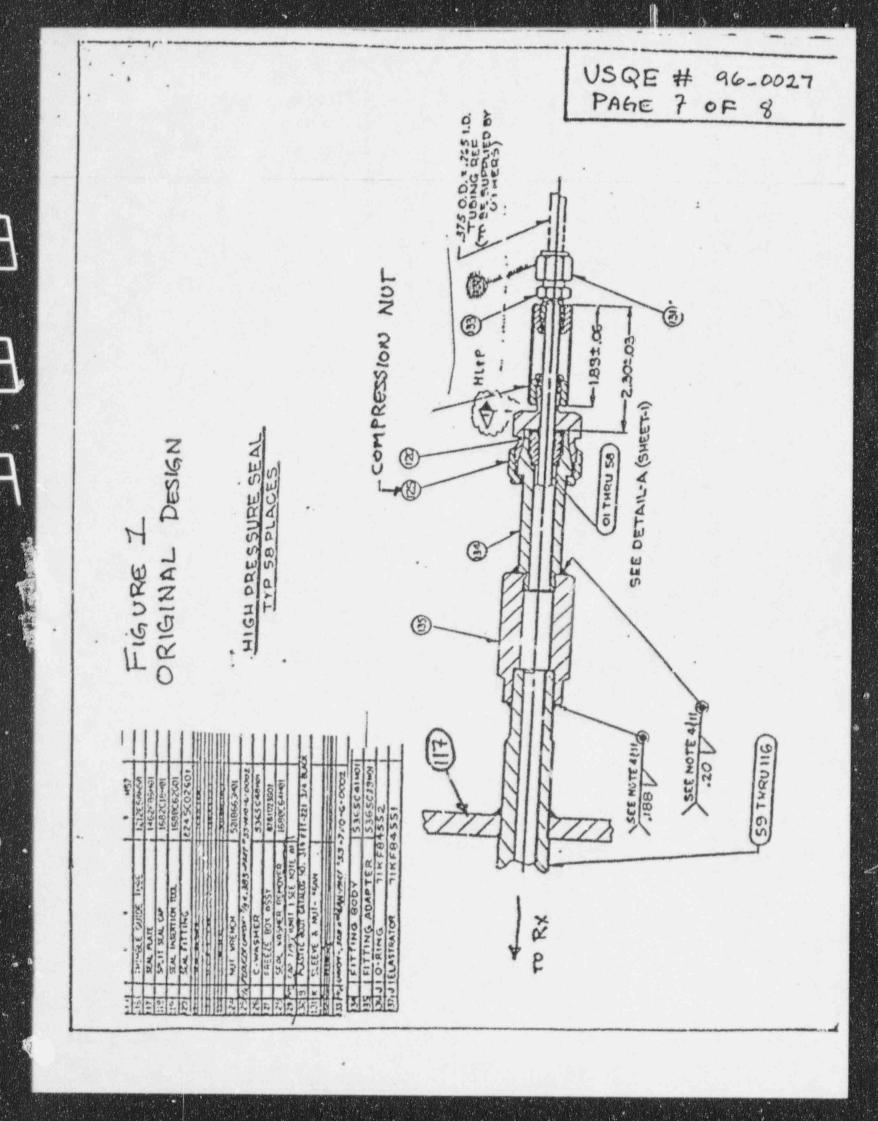
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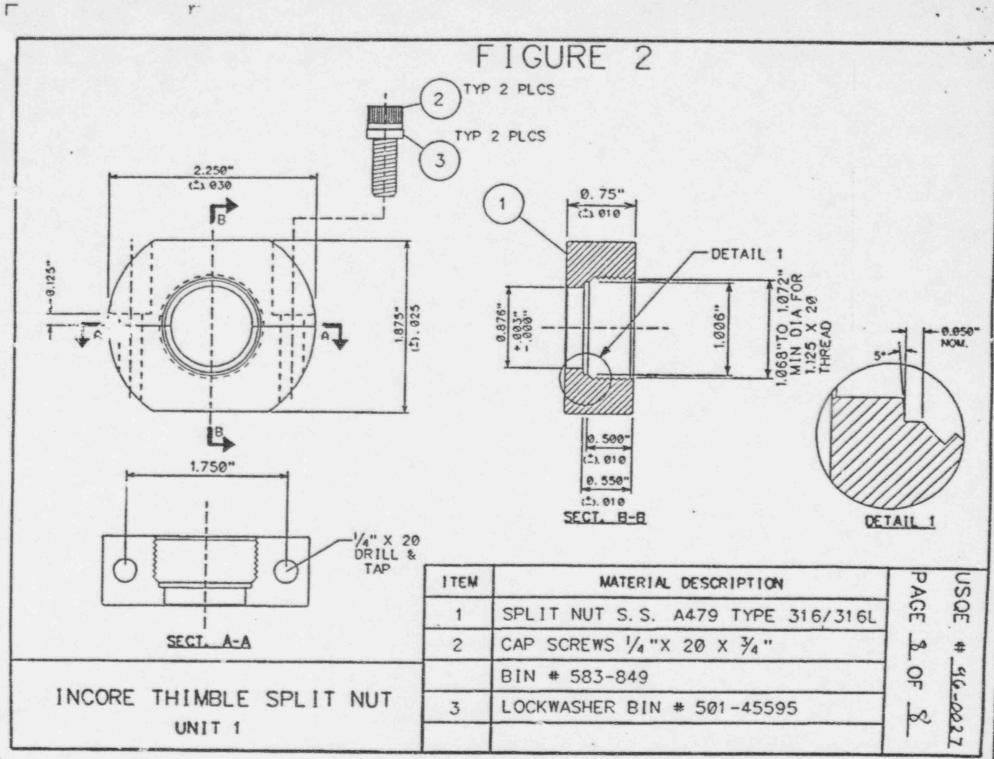
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Form 2	Unrevi	ewed Safety Que	stion Evaluatio	n Form	Pe	ge 4 of 4
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1.				No. of Concession, Name	<u> </u>	01 8
Originating Document:	DCP No. 95-1125	B/UFSAR CN#202	6 Rev. No.	0	1.1	
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	Involve an Unrevie	wed Safety Quest	ion.			union 0005 <u>110</u>
2.	One or more of the	above questions	was marked VES	- therefore +	he origins	tion desument
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	Form 1		10CFR50.59 Screening For	rm	Page	1 of 6
X	UNITEI	V UFSAR CN	X DESIGN CHANGE		ereben ninder som	an a
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			1258-6 and UFSAR ON #2026		REV. NO.	Supp 0
	SCRIPTION C					
PR	DVIDE OPTI	on of Using a split nut de	SIGN FOR THE HIGH PRESSURE I	FITTING FOR THE BMI	FLUX THI	MBLE
			PRELIMINARY SCREENING		*	
1.	Doos the pr	nnead a taccarda annac	ge to the Plant Technical Specification	~ ~	YES	NO
**					П	X
2.	is an Unrevi	ewed Safety Question known to	be associated with the subject change	?		X
	NOTE: II "Y	'ES" to either questions 1 or 2 re	fer to 0PGP05-ZN-0004.			
Doe	is the propose	od change represent:				
3.	A change to	only correct a typographical, edi	torial or drafting error?			X
4.	A change w	hich is identical to and addressed	d in its entirety by an existing approved	10CFR50.59		
	Screening/U	ISQE or NRC approved licensing	eubmitta??			N
						- Andrew
5.	(See Section	eplacement part/component chains 2.3 for a definition of equivalent	nge with an aquivalent pari/component I)	17		X
6.	A configurat	ion change within existing design	specifications?			Ø
If all	answers to t	he above guestions are "NO" per	form the final screening and mark N/A	In the approval blocks t	wolee	
If th	e answer to a	ny question (3) through (6) is "YE cks below and discard pages 2 a	ES" a final screening is not necessary.			
			ns (3) through (6) is answered "YES".			
		71 Mir Brown warman an ann ann an ann				
Prep	pared by:	NA				
			Originator			Date
	roved by:	NA				
App	toved by.	10				

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	10CFR50.59 Ex	aluations		
Form 1	10CFR50.59 Sc	reening Form	Page :	2 of 6
Originating Document No.	DCP 95-11258-6 and UFSAR ON #2026	F	Rev. No. Sup	рD
and the sections reviewed of a	FINAL SCREE below, if the change involves something that below, if the change involves something that however, this decision must be clearly do applicable documents and applicable attribu- toreening can be tound in Addendum 5. Required? hourrance.	t is not described in the SAR and is n	etitination for	each amarth
Risk and Reliability Analy	vsis Thermal Hydrausice	Reactor Engr.		
I am Alm	Mech ME Ry DElect		C) Othe	er en
6-5-96	6-5-66		YES	NO
1. Does the subject of this r Report? SEE PAGE 4	review involve a change to the facility as de	ioribed in the Safety Analysis	X	
2. Does the subject of this re Report? Refer to OPAPO SEE PAGE 4	eview involve a change to the procedures a 1-ZA-0103.	s described in the Safety Analysis		۵ <u>ک</u> ر

Form 1       10CH         Originating Document No.       95-11258-6 and CN #2026         3.       Does the subject of this review propose the conduct of Analysis Report?         SEE PAGE 4         4.       Does the proposed change affect conditions or bases safety-related functions of equipment/systems, even in physical change in existing structures, systems, or proposed change in existing structures, systems, system,	of test or exportments not do	orm Rev.	Page 3 of No. Supp 0 YES	GOGRATING STREET
<ul> <li>Originating Document No. <u>95-11258-6 and CN #2026</u></li> <li>3. Does the subject of this review propose the conduct of Analysis Report?</li> <li>SEE PAGE 4</li> <li>4. Does the proposed change affect conditions or bases safety-related functions of equipment/systems, even a physical change in existing structures, systems, or proposed change in existing structures, systems, systematical structures, systems, systems, systematical structures, structure</li></ul>	of test or exporiments not do	Soribed in the Salety	No. <u>Supp 0</u> YES	NO IXI.
<ol> <li>Does the subject of this review propose the conduct of Analysis Report?</li> <li>SEE PAGE 4</li> <li>4. Does the proposed change affect conditions or bases safety-related functions of equipment/systems, even to physical change in existing structures, systems, or pro-</li> </ol>	of test or exportments not do	soribed in the Salety	YES	NO IX
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safety-related functions of equipment/systems, even t physical change in existing structures, systems, or pro-	though the proposed change	lysis Report or	<b>F</b> -1	
If any answer is affirmative, complete the acreening form a	and porform an Unreviewed 9	Selety Question Evaluation		
If all answers are negative, no Unreviewed Safety Question				
Prepare by: WESCHULZ MTR	Orvinator		5-5-5	6
Approved by: JB Cattam Scotlan	P Infred Roviewer		6/5/9	6

## 10CFR50.59 SCREENING FORM

Documents Reviewed:

UFSAR Section 7.7.1.9.2 and references to Section 7.7 Technical Specifications 3/4.2.4; 3/4.3.3.2; 3/4.3.4.6.2 Safety Evaluation Report (SER) Section 3.9.2.3 and Supp. 1-7 Letter to NRC, ST-HL-AE-2737 dated July 18, 1988

#### DESCRIPTION OF CHANGE

The BMI flux thimbles have a high pressure seal to provide the pressure boundary for the Reactor Coolant System. This seal is a mechanical fitting (reducer union) which joins the guide tube stub to the flux thimble adjacent to the seal plate. During 1RE06, nuts which are part of this fitting were found to be galled at two of the thimble locations. This thread damage could not be repaired.

Since replacement of the nuts would be an involved evolution including a freeze seal and additional welding, it was decided to use an alternate design of a split nut to replace the original damaged nut. Installation of the split nut would be much easier and result in less personnel exposure. DCP 95-11258-6 describes the split nut and provides the technical justification for its use.

The thimble at location H11 had to be shortened in order to install a new reducer union fitting along with the split nut. The thimbles at locations G12 and R8 were also shortened during the installation of the high pressure seal.

1. Does the subject of this review involve a change to the facility as described in the Safety Analysis Report?

Shortening (repositioning) of the thimbles has been described to the NRC in the letters which are given as references to UFSAR Section 7.7. This is not a change to the faclity as described in the SAR.

The high pressure seal fitting details are not given in the UFSAR. However, a drawing showing the seal was part of a presentation to the NRC in May 1988. This drawing was included in WCAP-11862 which was transmitted to the NRC by letter ST-HL-AE-2737 dated July 18, 1988. Thus the change to allow the use of a split nut is considered a change to the facility.

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The material selection for the split nut is also considered a change to the facility. UFSAR Table 3.2.8-2 states that the thimble fittings shall be ASME Class 2. However, the split nut does not use ASME III Class 2 material. This exception is allowed under ASME XI. UFSAR Change Notice CN # 2026 has been prepared to revise Table 3.2.8-2 to state that the original design was ASME III Class 2 but that subsequent repairs and replacements under ASME XI are exempt from this except for material properties and stress levels.

Thus this Question is answered YES and USQE # 96-0027 has been prepared to evaluate it.

2. This DCP and UFSAR CN do not involve any changes to procedures described in the SAR.

3. This DCP and UFSAR CN do not involve any tests or experiments.

4. Does this change affect conditions or bases assumed in the SAR or safety related functions of equipment / systems?

The applicable Technical Specifications are 3/4.2.4 and 3/4.3.3.2 for flux mapping and 3/4.3.4.6.2 for RCS leakage. The bases for TS 3/4.2.4 mentions 8 specific thimbles that are needed for the four pairs of symmetric thimble locations that are used to confirm the Quadrant Power Tilt Ratio. None of these is impacted by this change. The shortening of thimbles G12; H11; and R8 does not adversely impact the flux mapping function of the Incore Instrumentation system. These thimbles have not been shortened before and can be shortened up to 6 inches before there would be a concern about the flux mapping. The pressure retaining ability of the thimbles is still maintained.

The safety function of the BMI thimbles is to maintain the integrity of the Reactor Coolant System (RCS) pressure boundary. As demonstrated in DCN 96-03713, the split nut will function the same as the original nut. DCN 96-03713 also shows that the seismic qualification of the guide tube stub and thimble fittings retain sufficient margin. The use of non-ASME III Class 2 material is acceptable per ASME XI as detailed in USQE 96-0027 prepared for the DCP 95-11258-6 and UFSAR CN #2026.

This the safety function of the BMI flux thimbles is still met. This change does not affect any other safety related equipment or systems.

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As discussed above there is no impact on any safety related functions. The thimbles continue to maintain their function and maintain the integrity of the RCS pressure boundary. There are no changes which would impact the Technical Specifications.