

13\_041208\_CLN\_02.doc

## *TO: DISTRIBUTION FROM: C NEUMEYER SUBJECT: RESPONSE TO CHITS FROM FRICTION COATING PEER REVIEW*

The following is the response to chits generated at the subject review held on 10/27/04, and chaired by L. Dudek under WP#1164.

Chit#	Description	Author	Committee	Response
	The TF column rotation			
	produces a translation and			
	rotation on the box. The			
	rotation leads to a frictional			Memo 13-041208-
	shear at the front of the box			CLN-01 provides a
	that probably exceeds the			revised analysis of
1	load estimated.	Schmidt	Concur	this situation.
	The 80/100 grit provides the			
	same coefficient as the			
	60/80 grit with a thickness			SOW was changed
	of 7.5 mils as compared to		Use	to call out the
2	the 12.5 mils for the 60/80.	Kozub	80/100	80/100 grit
				Memo 13-041208-
				CLN-01 indicates
				that loads on inners
				are very similar to
				outers due to the
				fact that the
				outermost hub disk
				provides the only
			Confirm	linkage to the
			SF on	spline, and all loads
	Coat only the surfaces		inner >	must therefore pass
	mating to the outer flag		outer flag	through the inner
3	boxes	Dudek	SF	flag boxes.

				Per I. Zatz e-mail
				11/22/04. "
				According to the
				analysis of in-plane,
				only, at EOFT, if
				the shear transfer
				between the box and
	The interconnected hub disk			hub were removed,
	annuli numbers 2 and 3			the amount of
	form a structure which is			moment that would
	stiff in opposing conical			have to be
	deformations. It ma be			carried across the
	sufficiently stiff to protect			joint would increase
	flag joints even if slipping			by more than a
	occurs between flag boxes			factor of two.
	and the hub disk annuli. If			Although I do not
	so, then applying the coating			have a 'frictionless'
	is not necessary.			benchmark' that
	Recommend analyzing the			includes out-of-
	joint stress situation in the			plane, I expect that
	event slipping occurs, to see			the situation would
4	whether it would be OK.	Woolley	Concur	only be worse."
				Inner disks
				connected by
				gussets are 316SS,
			Use	and outer disks are
			hardness	304SS. Samples
			tests to	were made from
	Verify the type of stainless		determine	304SS.
	steel that the hub and boxes		if samples	Recommended
	were constructed of.		and hub	hardness tests will
	Samples should be made of	~	parts are	be made when
5	the same material.	Chrzanowski	the same.	samples are tested.

J Chrzanowski	L Dudek	P Heitzenroeder	M Kalish	T Kozub
M Ono	J Schmidt	A Von Halle	M Williams	R Woolley
I Zatz				