

NUMBER: 02-05-28-CP

McAlester Engineering

PRODUCT: MISSION **Magnum** Centrifugal Pumps**SUBJECT:** Seal-Materials for Mechanical Seal Pumps

Mission Magnum Pump Mechanical Seals and Assemblies:

When National –Oilwell acquired Mission in 1989, the Magnum series of Centrifugal Pumps were primarily supplied with the 648414308 mechanical seal. It was a Tungsten on Tungsten seal. A Silicon Carbide on Tungsten was offered as C/N 648414357.

Between the 1989 merger date and today, It was decided to offer the SiC/Tungsten seal as the primary offering in all the pumps. To accomplish that these two previously mentioned C/N's descriptions were switched. Normally we do not do this but since the massive database of parts numbers reflecting the assemblies of all the various Magnum models would have to be changed, They changed descriptions thus leaving the 308 seal in the Bill of Material.

Today we are going back to offering Tungsten/Tungsten. We are reversing the change and again using the 648414308 C/N as it is assigned and documented as the Tungsten /Tungsten Mechanical seal.

The 648414357 revert to the Silicon Carbide/Tungsten seal as it was assigned and documented.

What this means is that all BOM's will not be changed as to commodity numbers but that the seals coming out in new pumps about July 2002 will revert to Tungsten / Tungsten seals.

All spare parts orders for the 308 C/n will also revert to Tungsten/ Tungsten Mechanical seals.

To obtain the Silicon Carbide seal, Sales and customers will have to order the original C/N 648414357.