



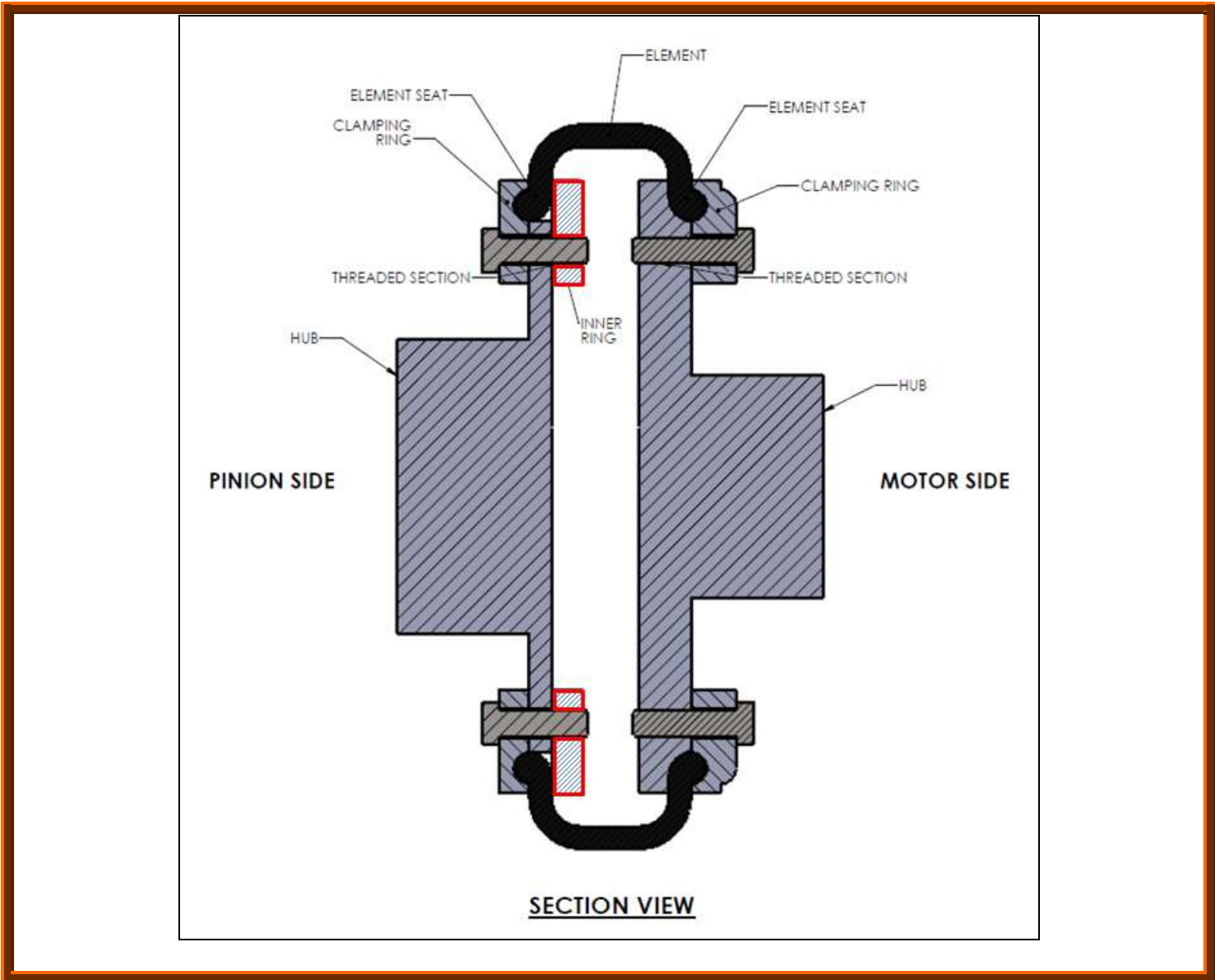
SAFETY ALERT NOTIFICATION

This is NOT an investigation report. It is a NOTIFICATION of a Significant Incident that has taken place at a Freeport-McMoRan location. The information below is a preliminary assessment and not a formal investigation.

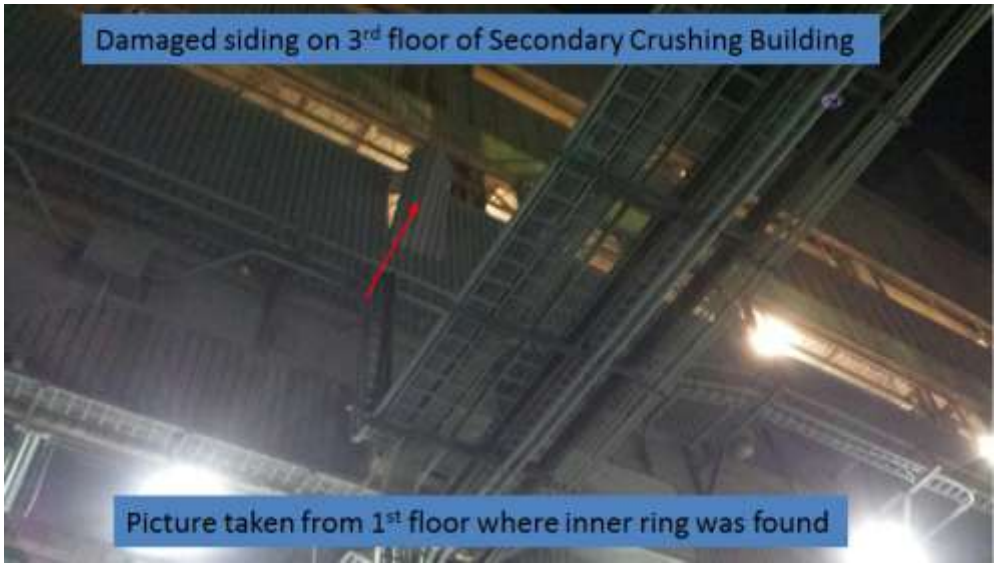
OPERATION:	Sierrita Operations		Incident:	Near Miss
ISSUED BY:	John Murphy		Injury:	
DATE:	2/7/14		Property Damage:	
TIME:	11:00 pm		Process Loss:	
LOCATION/DEPARTMENT:	3 rd Floor Fine Crushing Building / Crush and Convey			
INCIDENT DESCRIPTION:	<p>At approximately 10:59om on 2/7/14 the 5T (Sandvik H8800) cone crusher feeder belt went down due to a high crusher hopper lever. A Field Operator was dispatched to the 5T crusher and found the Dodge Para-Flex PX240 coupling between the crusher pinion and motor was no longer intact. At approximately 11:14pm immediately after finding the failed coupling the Field Operator called the Secondary Control Room Operator and asked for the 5T crusher motor to be shutdown.</p> <p>Maintenance Shift Mechanics were dispatched to repair the failed coupling. As the Mechanics were performing a JSA and Area Inspection damage to the coupling guarding was noted and the inner ring on the pinion side of the coupling was found to be missing. While the Mechanics were searching for the inner ring damage was found to the Secondary Building siding on the 3rd floor directly South of the 5T coupling where the inner ring exited the building. The approximately 50 lb inner ring was found on the 1st floor outside the Secondary Building in a pedestrian/vehicle alley way.</p> <p>According to process data and witness statements the 5T crusher motor ran uncoupled from the pinioin for approximately 15 minutes until shutdown by the Operator.</p>			
DETAILS OF INJURY TYPE:	No injuries. High potential for serious injury.			
POTENTIAL FOR INJURY:	Fatality	Lost Time	Permanent Disability	Other Potential
	x			
PROBABLE DIRECT CAUSES:	<ul style="list-style-type: none"> Loose clamping ring bolts. Due to the pinion shaft diameter a Dodge PX240 bore to size hub assembly is utilized. Dodge only manufactures a 3 piece hub assembly in the bore to size PX240 coupling. If not maintained properly the inner plate in the 3 piece design can become a projectile. No zero speed indication to shut down crusher motor in the event of a coupling failure. 			

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IMMEDIATE CORRECTIVE ACTION:	<ul style="list-style-type: none">• Flagged off “line of fire” areas around all 14 crushers.• Redesigned coupling guarding to contain projectiles if similar failure occurs.• Redesigned guarding being installed and thorough inspection of couplings being completed.• Review and retorque the Dodge Para-Flex PX 240 coupling between the crusher pinion and motor on the remainder of the other crushers.
REQUIRED ACTIONS:	<ul style="list-style-type: none">• Continue investigation.• Verify coupling design meets application criteria.• Investigate alternative coupling or design that minimizes projectile potential.• Review and improve coupling installation/preventative maintenance practices.• Install zero speed indication that will shut crusher motor down in the event of a coupling failure.



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This is NOT an investigation report. It is a NOTIFICATION of a Significant Incident that has taken place at a Freeport-McMoRan operation and is being communicated to enhance safety awareness should a similar situation exist. The information above is a preliminary assessment of the event and is not a formal investigation.

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