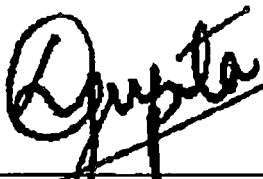


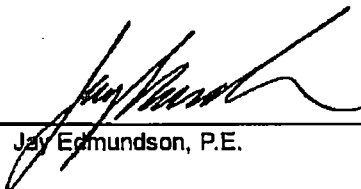
# Palo Verde Nuclear Generating Station - APS Main Hoist Reeving Calculations

Morris Material Handling  
Calculation # 36676-01  
Customer PO # 500556483

Revision # 07

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## REVISION PAGE

<u>Revision</u>	<u>Description of Revision</u>	<u>Date of Revision</u>
0	Initial Release	February 8, 2012
1	Adjusted References section Adjusted Methodology section Changed Calc Title Added calc # and revision to all pages	May 4, 2012
2	Added Section 6: Broken Rope Calculations Adjusted References section Updated calculations to reflect design changes Added Attachment 3	January 25, 2013
3	Updated References section Updated calculations to reflect design changes and comments	January 17, 2017
4	Updated References section Updated calculations to reflect design changes and comments	July 28, 2017
5	Updated trunnion pin calculation methodology and material name (5.4) Changed crosshead yield strength and calculation methodology (5.4)	August 25, 2017
6	Added Section 5.3.5	September 1, 2017
7	Added Section 5.3.4.2	September 28, 2017

## TABLE OF CONTENTS

<u>Chapter No.</u>	<u>Chapter Description</u>	<u>Page No.</u>
1.0	Purpose	4
2.0	Methodology	4
3.0	Assumptions	4
4.0	References	5
5.0	Normal Operation Calculations	6
— 5.1	Hook Assembly	6
— 5.2	Rope	14
— 5.3	Bottom Block	17
— 5.4	Upper Block	29
— 5.5	Drum	53
6.0	Broken Rope Calculations	68
— 6.1	Rope	68
— 6.2	Bottom Block	68
— 6.3	Upper Block	73
7.0	Conclusion	88
Attachment 1	Wire Rope Data	89
Attachment 2	Letter Regarding Hoist Speeds	90
Attachment 3	Impact Factor During the Event of One Rope Breaking	91
Attachment 4	Python Super 8CD Technical Data Sheet	94
Attachment 5	Exerpt from Wire Rope User's Manual - Third Edition	95
Attachment 6	Radial spherical plain bearings	96
Attachment 7	Hydraulic Cylinder Pressure Ratings	97
Attachment 8	Comment Resolution 5/4/2012	98
Attachment 9	Comment Resolution 1/17/2017	99
Attachment 10	Comment Resolution 7/28/2017	102
Attachment 11	Comment Resolution 8/25/2017	103
Attachment 12	Quadrant Engineering Sheave Design	104
Attachment 13	Cope Plastics Engineering Materials	107

## 1. PURPOSE

Evaluate the main hoist reeving system for the 225 ton Single Failure Proof containment building polar crane and verify that it meets the requirements of the specification as given in Ref. 9.

The Remaining Sections (107 pages)  
are considered Proprietary