NGS, BOR WRO <ngs@usbr.gov>

Draglines operating beyond their design limits

1 message

Vincent Yazzie [redacted] Sun, May 21, 2017 at 10:42 AM
Reply-To: Vincent Yazzie [redacted]
To: "ngs@usbr.gov" <ngs@usbr.gov>
Cc: Ed Becenti [redacted], Nicole Horseherder [redacted], Percy Deal [redacted], Jihan Gearon [redacted], Carol Davis [redacted], Vernon Masayesva [redacted], Ben Nuvamsa [redacted], David Palumbo <dpalumbo@usbr.gov>

May 21, 2017

Vincent Yazzie
[redacted]
Flagstaff, AZ 86004

Bureau of Reclamation (BOR)

Dear BOR,

NGS fuel supply being mined beyond the design limits of the draglines. Not safe. Kayenta Mine Permit application needs to be revoked immediately.
https://www.wrcc.osmre.gov/initiatives/kayentaMine/Permit/KPA_Vol1Ch5.pdf

Page 10 of 43 in pdf pages states equipment being used beyond mine depth limits.

Page 15-18 of 43 in pdf pages is the technical specifications of the mine equipment.

A bad let down to operate the Kayenta Mine in an unsafe condition so as to keep water going to CAP. Mine should have been shut down years ago. Reclamation needs to start.

Vincent Yazzie

2 attachments

over_burden_thick.JPG
273K

digging_depth.JPG
183K

Coal Resource Protection

Mining on the Black Mesa involves extraction of nonconcentrated, multiple coal seams having varying overburden depths and interburden thicknesses. This situation is clearly discernable by examining the cross sections found in Chapter 25. Coal seams split, change to burned coal, and pinch out in very short distances. The initial choice of mining equipment type and size was based upon the type of mining conditions (i.e., area mining in an area with highly changing surface elevations), production requirements, the life of the mining operation, types and thicknesses of overburden and parting, local and regional dip, and thickness of coal seams. Experience in mining on the Black Mesa has resulted in the current mix of major excavators and support equipment and in highly efficient and effective coal removal. Auxiliary equipment has been carefully matched to primary excavators and their capabilities. Mining activities are conducted to maximize the recovery of coal while maintaining environmental integrity. Based upon geological conditions and the current mix of excavation equipment used at Kayenta Complex, PWCC has defined the maximum recovery depth to be 180 feet. In some conditions, it may be economical to extend the maximum recovery depth to approximately 220 feet; however, this is evaluated by PWCC's engineering department on a site-by-site basis.

2570 WALKING DRAGLINE
SPECIFICATIONS

WEIGHTS:

NET WEIGHT*, DOMESTIC, APPROX. (WITH BUCKET + 80' BASE) LBS.....	10,430,000
WORKING WEIGHT, APPROX. (WITH BUCKET) LBS.....	11,180,000
BALLAST WEIGHT (FURNISHED BY PURCHASER) LBS.....	750,000

* ADD 90,000 LBS. FOR BLOCKING ON CARS WHEN ESTIMATING DOMESTIC FREIGHT.

ELECTRICAL EQUIPMENT:

HOIST MOTORS (BLOWN).....	EIGHT 500 HP
DRAG MOTORS (BLOWN).....	SIX 500 HP
SWING MOTORS (BLOWN).....	FOUR 625/1250 HP
WALKING MOTORS (BLOWN).....	FOUR 500/1000 HP

ALL ABOVE MOTORS RATED AT 75° CONTINUOUS AND AT 230/460V.
MT SET DRIVES: FOUR 2,500 HP SYNCHRONOUS MOTORS

WORKING DIMENSIONS

A	CLEARANCE RADIUS, FT.-IN.....	80-0
B	OPERATING RADIUS, FT.....	329
C	BOOM FOOT RADIUS, FT.-IN.....	30-0
D	CLEARANCE HEIGHT, FT.-IN.....	14-0
E	BOOM FOOT HEIGHT, FT.-IN.....	16-0
F	DUMPING CLEARANCE, FT.-IN.....	72
G	BOOM POINT HEIGHT, FT.....	204
H	DIGGING DEPTH, FT.....	160
J	POINT SHEAVE PITCH DIAMETER, IN.....	144
	BUCKET SIZE.....	90 C.Y.
	BOOM LENGTH, FT.....	366'
	BOOM ANGLE.....	35°
	MAX. SUSPENDED LOAD (TONS).....	225

BASE:

OUTSIDE DIAMETER, FT.-IN.....	80-0
BEARING AREA, SQ. FT.....	5026
CIRCLE RAIL DIAMETER, FT.-IN.....	54-0

WALKING MOUNTING: