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New York Power Authority

Memorandum

June 10, 2004

TO: S. DeCARLO

FROM: W. BRODERICK

SUBJECT: LANDSLIDE ALONG THE NORTH ACCESS ROAD
BLENHEIM-GILBOA POWER PROJECT

Following a landslide first reported to Engineering on June 1st, 2004, Fan Xi, Senior Civil/Geotechnical Engineer, inspected the site by flying over the landslide area in a helicopter provided by the Project on June 4th, 2004. Selected photos taken during the field inspection are attached.

The landslide is located to the western side of the North Access Road, approximately 600 feet southwest of the intersection of Route 30 and North Access Road. The movement of the landslide was apparently in the west-to-east direction, namely in the direction towards the North Access Road. The landslide has a plan area of approximately 150 feet long (in the movement direction) and 80 feet wide. At the head of the landslide, the height of the scarp was estimated to be 20 feet or more. The geological settings in the landslide area are believed to be similar to those in the recently completed South Access Road Slide Remediation area. It should be noted that landslide activity is a common occurrence in the Schoharie Valley region, particularly in the Spring.

Site Civil Engineer, Ty Hinkley, indicated that the landslide occurred on May 29th, two days after a rain storm of the magnitude of 1.96-inch during a 24-hour period on May 27. No personal injury as a result of the landslide was reported. Since the landslide occurred at a location outside the main perimeter of the Project, it did not cause any interruption to the Project's normal power generation operations, nor does it represent any threat to project dams or spillways.

Nevertheless, the landslide debris has created a blockage to the surface water drainage path of an area towards the north end of a fairly new mitigation wetland area constructed by NYPA. Restoration of the existing

not true
300 ft away.
as measured by SC

6/21/04 Steve Coonrod has done inclusive of consultant getting wetland to evaluate. I requested SC document this via e-mail.

roadway drainage system may be required. EPG suggests that the Environmental Division investigate the impact on the mitigation wetland by the landslide and take actions necessary for remediation if required.

As a result of this landslide and exposed scarp, more surface erosion in the vicinity of the landslide is expected along the North Access Road.

During the inspection, it was also observed that areas to the south of the landslide, sloping at approximately two (2) in horizontal to one (1) in vertical, appeared to be at or near the critical state. Landslides may occur in those areas. It is advisable to install warning signs in order to prevent people from entering the potential landslide areas. Permanent remediation may be needed in order to stabilize the slopes. — to be done

If you have any questions, or wish to discuss this matter in further detail, please contact me.

W Broderick

William Broderick, P.E.
Director, Civil/Structural Engineering
Power Generation

WB/FX

xc: R. Hiney
C. Lipsky
T. Antenucci
R. Siola
T. Hinkley
S. Monteleone
A. Sumner
W. Slade
R. Knowlton
F. Xi

Photo 1 Looking West at the Landslide (North Access Road at Bottom of the Photo)

Photo 2 Looking South at the Landslide