

Lao People's Democratic Republic
Peace Independence Democracy Unity prosperity

EDL-GENERATION PUBLIC COMPANY
NamNgum-1 HPP



No : 3663.....
NamNgum-1, Date 04 OCT 2018

Reservoir Water Situation Reports of NamNgum-1
Date : 04/10/2018 at 08:00 AM

1. Reservoir water level and Tail water level

- Reservoir water level 212.38 m.asl, Reservoir water Volume = 7,140,767,998 m³ , Water level has decreased 2 cm compared to 08:00 am yesterday morning
- Tail water level 168.0 m.asl has not change compared to 08:00 am yesterday morning

2. Reservoir Inflow and Outflow of NamNgum-1 HPP

- A. Reservoir Inflow**
- | | | |
|--|---------------------------|----------------------------------|
| Reservoir Inflow | = 571.3 m ³ /s | = 49,366,368 m ³ /day |
| All amount included: - inflow from NNG-2 | = 238.6 m ³ /s | = 20,619,360 m ³ /day |
| - inflow from others sources | = 332.7 m ³ /s | = 28,747,008 m ³ /day |
- B. Reservoir Outflow**
- | | | |
|---|---------------------------|----------------------------------|
| Reservoir Outflow | = 646.7 m ³ /s | = 55,879,200 m ³ /day |
| All amount included: - Turbines Discharge | = 522.3 m ³ /s | = 45,129,312 m ³ /day |
| - Spillway Discharge | = 124.4 m ³ /s | = 10,749,888 m ³ /day |
- the Height of Spillways gate opened 30 cm Spillways discharge = 124.4 m³/s
 - Rainfall at NamNgum 1 Raingauge is 0 mm

C. Pak ka ngoung gauge the water level at 5.56 m

- Flow at Pak ka ngoung gauge (Qpn) = 918.7 m³/s
- All amount included: - Flow from NamNgum 1 (Qng1) = 646.7 m³/s
- Flow from Nam Song River (Qns) = 4.4 m³/s
 - Flow fom Nam Lik1-2 (Qnl1-2) = 136.4 m³/s
 - Flow from others small tributeries (Q) = 131.1 m³/s

3. Reservoir Water Balance (A-B) = (-75.3) m³/s = (-6,512,832) m³/day

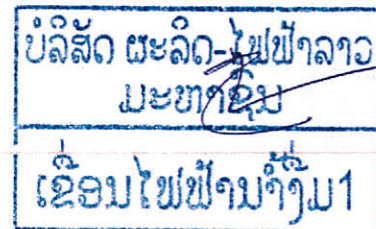
Therefore : Reservoir water level has decreased 2 cm

4. Streamgauge data along Namlik river and NamNgum Downstream River compared to 08:00 AM yesterday morning as follow:

- Water level at Pakkangoung gauge is 5.56 m at 08:00 am it is seen that water level has decreased 20 cm (5.76 m)
- Water level at Vernkham gauge is 6.46 m at 08:00 am it is seen that water level has decreased 28 cm (6.74 m)

Director of NamNgum-1 HPP

Remarks	Reservoir Water Level	Tail water level
Dangerous level	= 215.0 m.asl	175.00 m.asl
Warning level	= 214.0 m.asl	173.00 m.asl
Full supply Level	= 212.3 m.asl	172.00 m.asl
Normal level	= 212.0 m.asl	167.50 m.asl



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