

Lao People's Democratic Republic
Peace Independence Democracy Unity prosperity

EDL-GENERATION PUBLIC COMPANY
NamNgum-1 HPP



No : ...3.4.8.5...
NamNgum-1, Date:
21 SEP 20

Reservoir Water Situation Reports of NamNgum-1
Date : 21/09/2018 at 08:00 AM

1. Reservoir water level and Tail water level

- Reservoir water level 212.51 m.asl, Reservoir water Volume = 7,176,589,400 m³ , Water level has not change compared to 08:00 am yesterday morning
- Tail water level 168.10 m.asl has decreased 10 cm compared to 08:00 am yesterday morning

2. Reservoir Inflow and Outflow of NamNgum-1 HPP

| | | |
|---|---|----------------------------------|
| A. Reservoir Inflow | = 667.3 m ³ /s | = 57,654,864 m ³ /day |
| All amount included: - inflow from NNG-2 | = 418.9 m ³ /s | = 36,200,000 m ³ /day |
| - inflow from others sources | = 248.4 m ³ /s | = 21,461,760 m ³ /day |
| B. Reservoir Outflow | = 667.3 m ³ /s | = 57,654,864 m ³ /day |
| All amount included: - Turbines Discharge | = 542.0 m ³ /s | = 46,828,800 m ³ /day |
| - Spillway Discharge | = 125.3 m ³ /s | = 10,826,064 m ³ /day |
| • the Height of Spillways gate opened 30 cm | Spillways discharge = 125.3 m ³ /s | |
| - Rainfall at NamNgum 1 Raingauge is 0 mm | | |

C. Pak ka ngoung gauge the water level at 7.07 m

| | |
|---|-----------------------------|
| • Flow at Pak ka ngoung gauge (Qpn) | = 1,388.3 m ³ /s |
| All amount included: - Flow from NamNgum 1 (Qng1) | = 667.3 m ³ /s |
| - Flow from Nam Song River (Qns) | = 219.5 m ³ /s |
| - Flow fom Nam Lik1-2 (Qn1-2) | = 151.6 m ³ /s |
| the Height of Spillways gate opened 50 cm | |
| - Flow from others small tributeries (Q) | = 349.9 m ³ /s |

3. Reservoir Water Balance (A-B) = 0 m³/s = 0 m³/day

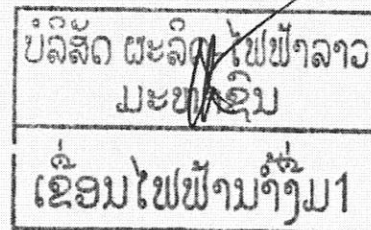
Therefore : Reservoir water level has not change

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 7.07 m at 08:00 am it is seen that water level has decreased 3 cm (7.10 m)
- Water level at Vernkham gauge is 9.30 m at 08:00 am it is seen that water level has decreased 20 cm (9.50 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 |



Buavanh CHANSAVATH
Director