

- a) carry out a sanitary reservoir clearance before impoundment;
  - b) clear all weeds and shrubs along the reservoir shores;
  - c) monitor all zones favourable to mosquito breeding;
  - d) drain stagnant water pools and spray marshlands and shallow waters;
  - e) carry out research to evaluate if a 0.3 m weekly drawdown of the reservoir to fight the mosquito breeding during the oviposit season would promote snail breeding in shallow waters; and
  - f) three years before impoundment, conduct surveillance and treatment of malaria carriers and mass vaccination against Encephalitis B.
- Prepare and implement a program of mitigation measures and monitoring of rat concentration and of the incidence of leptospirosis and haemorrhagic fever, that would include inter-alia: conduct rat extermination campaigns twice a year beginning immediately.
  - set up a Medical Advisory Panel.

#### .4 Concerning Reservoir Operation Upstream of the Damsite

- Locate and identify the nature and quantity of sensitive materials in tributary valleys to be flooded, and assess the probability of significant increases in turbidity.
- Evaluate specific erosion potential of the reservoir perimeter for the selected reservoir levels in order to develop and implement appropriate mitigation measures if required. Typical measures would include a variety of shore protection works, such as rock armouring, or the physical relocation of affected structures or activities.
- Carry out a comprehensive study of the impacts of the changes in the drawdown and flood pattern of the Yangtze River on the social and economic activities in the reservoir area and develop mitigation measures to facilitate the adaption process of affected groups.
- Compensate the remaining population between NPL and the relocation level which is subject to periodic flooding, for flood damages according to clearly defined and communicated regulations;

- Implement a continuing education program and flood warning system for this population.

.5 Concerning Reservoir Operation Downstream of the Damsite

- Compile the results of investigations already carried out and required to properly address the effect of the Three Gorges spillway operation on the downstream fisheries.
- Document the dismissal of downstream gas supersaturation as a major potential impact.
- In the event that existing data is incomplete, estimate the extent of the problem of supersaturation and the tolerance of various fish species and determine the feasibility of mitigation, compensation or enhancement. Losses due to supersaturation could be financially compensated, replaced by stocking or intensifying aquaculture production in affected areas or compensated by developing or intensifying aquaculture production in other areas.
- Review planned operating characteristics of reservoir drawdown and filling in order to minimize discharge modifications and reduce operation of the spillways. In particular, review the duration and time of occurrence of these transition phases with regard to the ecological characteristics and requirements of key aquatic and riparian habitats and species.
- Assess hydrodynamic conditions of the most significant downstream reaches, particularly of stage–discharge relationships with Dongting Lake and Poyang Lake and of mixing conditions within the estuary. Modifications induced by the Three Gorges Project should be reviewed with regard to the ecological characteristics and requirements of key aquatic and riparian habitats and species.
- Monitor fish spawning behavior and spawning conditions in relation to flow to determine whether these changes will affect future fisheries production.
- Integrate and develop existing research programs to better understand the cause and effect relationships involving river flow, pollution, overfishing, dams and fish production, and to provide a comprehensive picture of estuary dynamics and productivity.
- Assess potential impacts of reservoir drawdown and filling on the ecological characteristics and requirements of key aquatic habitats and species in Dongting and Poyang Lakes.

- Review and assess daily peaking operations in order to minimize stage and discharge modifications downstream. Peaking operations should be reviewed with regard to the sensitivity of shorelines and the ecological characteristics and requirements of key aquatic species.
- Complete studies and simulations with regard to future downstream sediment regime conditions.

## **6 Concerning Resettlement**

- Conduct further studies for detailed planning of resettlement, to identify zones where the potential of landslides is great and to evaluate the potential for erosion due to construction of new towns and roads. The potential effects of induced seismicity on slope stability should also be taken into account and specific seismicity criteria should be introduced in resettlement plans (relocation and construction).
- Use the full potential of available geological data in land use classification and planning and for geotechnical evaluation of foundation conditions for major resettlement buildings and infrastructure.

### **9.2.5 Other Recommendations**

- Establish an Environmental Advisory Panel to coordinate environmental protection with resettlement activities.
- Undertake a preliminary environmental study to orient the ongoing development of the existing transmission network and the future integration of Three Gorges Project output.

Renseignements supprimés en vertu de \_\_\_\_\_ la Loi sur l'accès à l'information  
Information deleted pursuant to 19(1)  
Access to information Act

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## **VOLUME 8 – ENVIRONMENT**

### **ANNEX 1 – LIST OF KEY WORDS**

This annex contains a list of key words referred to in Volume 8 and its Appendices A to G.

A list of key words was selected and are listed in the following pages where the location of each key word in the environmental report is identified by Section and page number for Volume 8 and each Appendix, i.e., 2–2 indicates in Volume 8, Section 2, page 2, and C3–3 indicates in Appendix 8C, Section 3, page 3.

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