



**NORTHERN POWER GENERATION COMPANY LIMITED**

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No. CEO/MZG/Dir (MMS)/ 4095-96

Head of Project Implementation Unit,  
USAID GTIP Project,  
AEAI, Islamabad.

Office Of The  
Chief Executive Officer  
Genco-III, NPGCL, TPS,  
Muzaffargarh

Dated, 17/04/2013

Subject: **IMPLEMENTATION OF ENVIRONMENTAL MITIGATION & MONITORING PLAN (EMMP) FOR REPAIR AND REHABILITATION WORK AT MUZAFFARGARH THERMAL POWER STATION.**

It is hereby intimated please that, as per Waste Disposal Plan, proper Handling/Storage of equipment and consequent waste produced hereafter installation, is being ensured.

Further Block wise progress report for the period from March-2013 to date, on the prescribed proforma, by collecting all data relating to procurement/installation and consequent waste generation, as instructed in the EMMP Plan is prepared and is hereby being attached for your information as desired please.

DA/Progress Report

  
Chief Engineer/Technical Director  
NPGCL, TPS Muzaffargarh

C.C To:

- PA to CEO TPS Muzaffargarh.

Report No	Unit No.1, 2 & 3 Phase-I TPS, Muzaffargarh	Prepared By	Office of RE (M) U 1~4
Date	17-04-2013	Distribution	
Reference	US AID	Page	01
Reporting Period	07-03-2013 to 16-04-2013		
Monitoring / Inspection Team	Mr. Rasheed Ahmad Bhatti (Convener) , AE of each Section & ASM-I		

### Project Activities Carried Out

Activity	Status
Rehabilitation of Boiler Super Heater Tubes	Boiler Super Heater Tubes have been replaced.

### Waste Generated and Handled

Waste Type	Sources	Quantity	Status
Steel Alloy	Boiler No.1, 2 & 3	20000 Kg	Survey report has been submitted to Convener of Survey Committee (Dir. Technical)

### Summary of Occupational Safety and Health Environmental Issues Identified

No	Issue	Location	Discussion	Decision / Action	Responsible Person	Target Date
1	Nil	Nil	Nil	Nil	Nil	Nil
2	Nil	Nil	Nil	Nil	Nil	Nil

### Follow-up of Outstanding Issues

No	Date Issue Raised	Issue and Action	Status	Discussion	Responsible Person	Revise Target Date
	Nil	Nil	Nil	Nil	Nil	Nil
	Nil	Nil	Nil	Nil	Nil	Nil

Report No	Unit No.1, 2 & 3 Phase-I TPS, Muzaffargarh	Prepared By	Office of RE (M) U 1~4
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Monitoring / Inspection Team	Mr. Rasheed Ahmad Bhatti (Convener) , AE of each Section & ASM-I		

## Inspection

### A-Rating Codes for the Checklist

Rating Code	Rating	Description
3	Excellent	The activity, area, system, and/or knowledge are superior comments detailing
2	Adequate	The activity, area, system, and/or knowledge meet the basic minimum Requirements which includes proper documentation and full implement
1	Deficient	The activity, area, system, and/or knowledge are weak and not up to acceptable standards {Documented, and not implemented or implemented and not documented). Comments outlining weaknesses required
0	Unsatisfactory	The activity, area, system, and/or knowledge are missing or of such a nature to warrant serious no compliance. Comments detailing concerns required.
N/A	Not Applicable	The question is not applicable to the type of operation, or the item was unable to be addressed during the audit.

### B-Checklist

Requirement	3	2	1	0	N/A	Details
<b>A. Waste Handling and Storage</b>						
1- Use of protective leather gloves while handling sharp edged metals	√					
2. All parts and machines dispatched from site to storage yard after dismantling, preferably on the same day		√				
3. Marking and segregation of wastes in scrap yard and a clear passage way marked by lines on the ground for walking of staff. No waste stored within the passage way.		√				
4. Sharp edged metal are not to be left unattended at any time. In the storage yard, the storage area for sharp edged metals cordoned off using clearly visible tapes.	√					
5. All Parts and machines dispatched from site after dismantling to store yard as soon as possible, preferably on the same day		√				
6. Before final disposal, any potentially hazardous substance such as lead or material containing lead are identified and disposed of accordingly.	√					

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Requirement	3	2	1	0	N/A	Details
7. To the extent possible any oil or grease in the equipment to be replaced is removed before dismantling of the equipment					√	
8. All efforts are made to avoid spilling the oil on the floor					√	
9. Any spillage is removed immediately. For this purpose, spill control kits are made available near the work areas.					√	
10. Waste oil is stored in leak proof containers					√	
11. Oil is stored in designated and clearly marked areas. The oil storage area is lined with impervious flooring					√	
12. The oil storage area is away from direct heat and fire source					√	
13. The oil storage area has dykes constructed around it to control accidental leakages and					√	
14. All type of plastic is collected and stored in separate bins marked for this purpose		√				
15. Plastic waste is not burnt in open air or disposed off by dumping in the areas surrounding the plant site	√					
16. Nails are removed from the woods	√					
17. All type of waste is collected and stored in separate bins marked for the designated purpose	√					
18. The equipment are opened only under the supervision of a qualified person. Any potentially hazardous material such as mercury is identified prior to dismantling and appropriate safety measures are taken.	√					
19. Masks are used to avoid respiratory infections while handling carbon soot	√					
20. Soot is transported and stored in covered containers	√					
21. Soot is preferably disposed as soon as it is removed from the duct. Prolonged storage, particularly at the site, is generally avoided.		√				
22. Waste is not burnt in open air or disposed of by dumping in the areas surrounding the plant site	√					

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Monitoring / Inspection Team	Mr. Rasheed Ahmad Bhatti (Convener) , AE of each Section & ASM-I		

Requirement	3	2	1	0	N/A	Details
23. Standard protective equipment including eye protective glass, gloves and mask are used.	√					

### B- Waste Disposal

1. Separate oil contaminated parts from the rest					√	
2. The oil contaminated parts of waste is cleaned before being fed into furnace. Alternatively, the cleaning may be undertaken at power station.					√	
3. Segregate wires and other copper material and insulation material from the rest.					√	
4. Before final disposal, any potentially hazardous substance such as lead or material containing lead is identified.	√					
5. The risk associated with the wastes is identified, and accepted disposal methods for such waste are followed.	√					
6. Only certified recycling contractors are used for disposal from the relevant agencies.	√					
7. Agreement with the contractors for the disposal of plastic waste in the designated pre-identified municipal landfill site.					√	
8. The soot is disposed of in an onsite landfill.	√					
9. The landfill design shall be located on land owned by MTPS; in areas with deep water table (> 20 m); preferably in an area with hard rock bed.	√					
10. After dumping of the soot in the landfill, it is immediately spread into layer and a layer of soil is spread over it.		√				
11. Soot is transported and stored in covered containers		√				
12. It is preferable to dispose of the soot as soon as it is removed from the duct. Prolonged storage, particularly at the site, is avoided.		√				

### C- Transportation of Equipment from Karachi to MTPS

1. Vehicles used for the transportation are NEQS compliant for the emissions and noise.	√					
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Requirement	3	2	1	0	N/A	Details
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#### D. Onsite Handling and Storage of New Equipment

1. The new equipment is stored in properly demarcated and identified areas	√					
2. Separate storage of each item is adopted and each area is marked either on floor or cordoned off by tapes	√					
3. Lifting equipment (cranes) used for the equipment follows the prescribed safety specification.	√					
4. Material Safety Data Sheet (MSDS) for chemicals, if any, shall accompany the consignment. A copy of the MSDS is available near the storage area at all times.		√				

#### E. Repair, Rehabilitation and Installation Activities—General

1. Appropriate PPE is provided to the workers and ensured that the PPEs <sup>1</sup> are used.		√				
2. The staff is provided with training in use of PPE.	√					
3. Proper scaffolding platforms are provided for all work areas located more than 1 m above floor level.	√					
4. First Aid facilities and fire protection devices are placed in areas where activities are to be performed	√					
5. Ear protection devices are used if the noise level is above 85 dB(A)	√					

#### F. Repair, Rehabilitation and Installation Activities—Working in Confined Spaces

1. All confined spaces are identified	√					
2. The temperature of the confined spaces is in the human tolerance range		√				
3. Artificial and intrinsically safe lighting are provided in the confined spaces	√					
4. If there is a risk of gases or fumes in the confined space the provisions for ventilation is made.	√					

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### Project Activities Carried Out

Activity	Status
Special Cooling Water Treatment	Re-tendering is in process

### Waste Generated and Handled

Waste Type	Sources	Quantity	Status
NA	NA	NA	NA

### Summary of Occupational Safety and Health Environmental Issues Identified

No	Issue	Location	Discussion	Decision / Action	Responsible Person	Target Date
1	NA	NA	NA	NA	NA	NA
2	NA	NA	NA	NA	NA	NA

### Follow-up of Outstanding Issues

No	Date Issue Raised	Issue and Action	Status	Discussion	Responsible Person	Revise Target Date
	NA	NA	NA	NA	NA	NA
	NA	NA	NA	NA	NA	NA

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### Project Activities Carried Out

Activity	Status
Use of Fuel Oil Additive	Tender Evaluation is in process

### Waste Generated and Handled

Waste Type	Sources	Quantity	Status
NA	NA	NA	NA

### Summary of Occupational Safety and Health Environmental Issues Identified

No	Issue	Location	Discussion	Decision / Action	Responsible Person	Target Date
1	NA	NA	NA	NA	NA	NA
2	NA	NA	NA	NA	NA	NA

### Follow-up of Outstanding Issues

No	Date Issue Raised	Issue and Action	Status	Discussion	Responsible Person	Revise Target Date
	NA	NA	NA	NA	NA	NA
	NA	NA	NA	NA	NA	NA

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### Project Activities Carried Out

Activity	Status
Replacement of cold layer Element for RAH	Material has been replaced.

### Waste Generated and Handled

Waste Type	Sources	Quantity	Status
Carton Steel "A"	RAH Unit # 1,2&3	18000 Kg	Survey report has been submitted to Convener of Survey Committee (Dir. Technical)

### Summary of Occupational Safety and Health Environmental Issues Identified

No	Issue	Location	Discussion	Decision / Action	Responsible Person	Target Date
1	Nil	Nil	Nil	Nil	Nil	Nil
2	Nil	Nil	Nil	Nil	Nil	Nil

### Follow-up of Outstanding Issues

No	Date Issue Raised	Issue and Action	Status	Discussion	Responsible Person	Revise Target Date
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### Checklist

Requirement	3	2	1	0	N/A	Details
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4. Sharp edged metal are not to be left unattended at any time. In the storage yard, the storage area for sharp edged metals cordoned off using clearly visible tapes.	√					
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Requirement	3	2	1	0	N/A	Details
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10. Waste oil is stored in leak proof containers					√	
11. Oil is stored in designated and clearly marked areas. The oil storage area is lined with impervious flooring					√	
12. The oil storage area is away from direct heat and fire source					√	
13. The oil storage area has dykes constructed around it to control accidental leakages and					√	
14. All type of plastic is collected and stored in separate bins marked for this purpose						
15. Plastic waste is not burnt in open air or disposed off by dumping in the areas surrounding the plant site					√	
16. Nails are removed from the woods	√					
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18. The equipment are opened only under the supervision of a qualified person. Any potentially hazardous material such as mercury is identified prior to dismantling and appropriate safety measures are taken.	√					
19. Masks are used to avoid respiratory infections while handling carbon soot	√					
20. Soot is transported and stored in covered containers					√	
21. Soot is preferably disposed as soon as it is removed from the duct. Prolonged storage, particularly at the site, is generally avoided.					√	
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Requirement	3	2	1	0	N/A	Details
23. Standard protective equipment including eye protective glass, gloves and mask are used.	√					

#### B- Waste Disposal

1. Separate oil contaminated parts from the rest					√	
2. The oil contaminated parts of waste is cleaned before being fed into furnace. Alternatively, the cleaning may be undertaken at power station.					√	
3. Segregate wires and other copper material and insulation material from the rest.					√	
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5. The risk associated with the wastes is identified, and accepted disposal methods for such waste are followed.	√					
6. Only certified recycling contractors are used for disposal from the relevant agencies.	√					
7. Agreement with the contractors for the disposal of plastic waste in the designated pre-identified municipal landfill site.					√	
8. The soot is disposed of in an onsite landfill.					√	
9. The landfill design shall be located on land owned by MTPS; in areas with deep water table (> 20 m); preferably in an area with hard rock bed.					√	
10. After dumping of the soot in the landfill, it is immediately spread into layer and a layer of soil is spread over it.					√	
11. Soot is transported and stored in covered containers					√	
12. It is preferable to dispose of the soot as soon as it is removed from the duct. Prolonged storage, particularly at the site, is avoided.					√	

#### C- Transportation of Equipment from Karachi to MTPS

1. Vehicles used for the transportation are NEQS compliant for the emissions and noise.	√					
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Requirement	3	2	1	0	N/A	Details
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#### D. Onsite Handling and Storage of New Equipment

1. The new equipment is stored in properly demarcated and identified areas	√					
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4. Material Safety Data Sheet (MSDS) for chemicals, if any, shall accompany the consignment. A copy of the MSDS is available near the storage area at all times.		√				

#### E. Repair, Rehabilitation and Installation Activities—General

1. Appropriate PPE is provided to the workers and ensured that the PPEs <sup>1</sup> are used.		√				
2. The staff is provided with training in use of PPE.	√					
3. Proper scaffolding platforms are provided for all work areas located more than 1 m above floor level.	√					
4. First Aid facilities and fire protection devices are placed in areas where activities are to be performed	√					
5. Ear protection devices are used if the noise level is above 85 dB(A)	√					

#### F. Repair, Rehabilitation and Installation Activities—Working in Confined Spaces

1. All confined spaces are identified	√					
2. The temperature of the confined spaces is in the human tolerance range		√				
3. Artificial and intrinsically safe lighting are provided in the confined spaces	√					
4. If there is a risk of gases or fumes in the confined space the provisions for ventilation is made.	√					

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#### Project Activities Carried Out

Activity	Status
Modification of Excitation System (03 Set)	In Progress

#### Waste Generated and Handled

Waste Type	Sources	Quantity	Status
NA	NA	NA	NA

#### Summary of Occupational Safety and Health Environmental Issues Identified

No	Issue	Location	Discussion	Decision / Action	Responsible Person	Target Date
1	NA	NA	NA	NA	NA	NA
2	NA	NA	NA	NA	NA	NA

#### Follow-up of Outstanding Issues

No	Date Issue Raised	Issue and Action	Status	Discussion	Responsible Person	Revise Target Date
	NA	NA	NA	NA	NA	NA
	NA	NA	NA	NA	NA	NA

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### Project Activities Carried Out

Activity	Status
Electric Motor for CT Fan (02 Nos.)	Received and installed at site in February, 2013

### Waste Generated and Handled

Waste Type	Sources	Quantity	Status
Repairable	Cooling Tower Unit No.1, 2 & 3	02 x 3000 Kgs.	To be Repaired

### Summary of Occupational Safety and Health Environmental Issues Identified

No	Issue	Location	Discussion	Decision / Action	Responsible Person	Target Date
1	NA	NA	NA	NA	NA	NA
2	NA	NA	NA	NA	NA	NA

### Follow-up of Outstanding Issues

No	Date Issue Raised	Issue and Action	Status	Discussion	Responsible Person	Revise Target Date
	NA	NA	NA	NA	NA	NA
	NA	NA	NA	NA	NA	NA

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#### Project Activities Carried Out

Activity	Status
Electric Motor for GRC Fan (01 No.)	Received on Dated: 18-10-2012 and will be replaced in ABI

#### Waste Generated and Handled

Waste Type	Sources	Quantity	Status
NA	NA	NA	NA

#### Summary of Occupational Safety and Health Environmental Issues Identified

No	Issue	Location	Discussion	Decision / Action	Responsible Person	Target Date
1	NA	NA	NA	NA	NA	NA
2	NA	NA	NA	NA	NA	NA

#### Follow-up of Outstanding Issues

No	Date Issue Raised	Issue and Action	Status	Discussion	Responsible Person	Revise Target Date
	NA	NA	NA	NA	NA	NA
	NA	NA	NA	NA	NA	NA

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### Project Activities Carried Out

Activity	Status
DC Storage Batteries (01 Set)	The Batteries have been installed at Unit # 1

### Waste Generated and Handled

Waste Type	Sources	Quantity	Status
Batteries (Cell)	Batteries of Unit # 1	130 Nos. ( 7150 Kg.)	Disposed of safely by the release committee of GENCO-III

### Summary of Occupational Safety and Health Environmental Issues Identified

No	Issue	Location	Discussion	Decision / Action	Responsible Person	Target Date
1	Nil	Nil	Nil	Nil	Nil	Nil
2	Nil	Nil	Nil	Nil	Nil	Nil

### Follow-up of Outstanding Issues

No	Date Issue Raised	Issue and Action	Status	Discussion	Responsible Person	Revise Target Date
	Nil	Nil	Nil	Nil	Nil	Nil
	Nil	Nil	Nil	Nil	Nil	Nil

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### Project Activities Carried Out

Activity	Status
220 KV Circuit Breaker S.F-6 (06 Nos.)	Received on Dated:18-03-2013 and will be replaced in Major Overhauling, ABI and Shutdowns of 220KV Lines

### Waste Generated and Handled

Waste Type	Sources	Quantity	Status
NA	NA	NA	NA

### Summary of Occupational Safety and Health Environmental Issues Identified

No	Issue	Location	Discussion	Decision / Action	Responsible Person	Target Date
1	NA	NA	NA	NA	NA	NA
2	NA	NA	NA	NA	NA	NA

### Follow-up of Outstanding Issues

No	Date Issue Raised	Issue and Action	Status	Discussion	Responsible Person	Revise Target Date
	NA	NA	NA	NA	NA	NA
	NA	NA	NA	NA	NA	NA