5-1 Conclusions

1. In this case heat losses by radiation were 62905 W and by convection were 19806 W.

2. 32 cm is the thickest insulation that will pay for itself in one year.

3. Using infrared thermal camera is the optimum method for studying heat losses from boilers side wall.

4. The boiler body should be repaired by best insulation to reduce the heat power losses by radiation and convection.

5. Boiler insulation saving money and protect a person from injuring.

5-2 Recommendations

Practical solutions to reduce the power losses for the above problems:-

Reducing the plant power (KNPS) heat losses can be achieved by applying the following suggestion:

a. Continuously use the infrared thermal camera to study problems of thermal power plant losses will minimize running cost.
b. Those points and location that were photographed by infrared thermal camera must be maintained.
REFERENCES

4. Dr. Sharief Power Station Shift Charge Engineer, Dr. Sharief Power Station, Daily Operation Records (July - October 2013).