

Chemistry - PI 24

ENVIRONMENTAL MONITORING AND CONTROL - GENERAL

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Objectives:

1. For thermal emissions to water from an NGS (choose one) state:
    - (a) the  $\Delta T$  allowed.
    - (b) the maximum effluent temperature allowed.
  2. For the station from objective #1 above, give three examples of thermal emission excursions and state the extent of the excursion and the reason. (Data will be supplied).
  3. In the areas of - oils
    - bulk chemicals
    - sewage
    - poly-chlorinated biphenyls
    - odour
    - noise
    - fish impingement
    - (a) describe the source.
    - (b) define an "incident" (for odour and noise only).
    - (c) briefly outline the performance for the station to which you have been deployed (or of the site to which the problem is specific).
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In the previous modules of this section on environmental concerns, we looked at some specific problems in the areas of radiological emissions and release of H<sub>2</sub>S from BHWP. Now we will address an assortment of other items so that we can clean up (no pun intended) our discussion of environmental impact. The NGD Annual Environmental Summary with which you are now familiar will contain the information and data required for this module.

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Here's What To Do:

1. Fill in the worksheets on the following pages.
2. Have your work reviewed by a colleague.
3. If you have any questions, see the course manager.

WORKSHEET #1

Thermal Emission to Water

Station: \_\_\_\_\_

(1) Maximum  $\Delta T$  allowed: \_\_\_\_\_

(2) Maximum effluent temperature allowed: \_\_\_\_\_

(3) Give at least three excursion examples of the above limits. Note extent, duration, cause and corrective action.

WORKSHEET #2 (Page 1 of 2)

For each of the following items:

- (a) Describe Source.
- (b) Define incident (for odour and noise only).
- (c) Discuss your station's performance (or the performance of the site to which the problem is specific).

(a) Oils

(b) Bulk Chemicals

(c) Sewage

WORKSHEET #2 (Page 2 of 2)

(d) PCB

(e) Odour

(f) Noise

(g) Fish Impingement

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