

Technical Reclamation Memorandum

TRM # 18



Kentucky Department for
Surface Mining Reclamation
and Enforcement

Date: July 10, 1990

From: *WJ* William J. Grable, Commissioner

Subject: Certification of
Maintenance of Impoundments

Attached is a revised form SME-22, "Certification of Maintenance of Impoundments," dated July 1990. This revised form replaces the original form SME-22 dated June 1982, and hereafter is to be used for all engineer certifications of maintenance of impoundments, regardless of impoundment size, type, or purpose. The form has been revised to reflect current regulations and to provide a standard format for reporting maintenance inspections.

Page 1 of the form is a slightly revised version of the original SME-22. The title of the form has been revised to comply with current regulations. A line has been added to record the name of the permittee. In paragraph (a), "persons under my supervision" was changed to "qualified professional specialist under my supervision" to comply with current regulations. Also, corrections were made to the references to the regulations in the last sentence on page 1.

Page 2 is new and provides a standardized format for reporting the results of the maintenance inspection. Where an inspection reveals a maintenance problem that requires correction, the engineer should sign page 2, but not page 1.

The regulations [405 KAR 16:100/18:100 Section 1(9)] require that a maintenance inspection, followed promptly by the engineer's certification of maintenance, shall be made "at least yearly" on each impoundment. Questions have arisen concerning when the "yearly" inspection period starts and ends. For newly constructed impoundments, the first inspection of maintenance must occur no later than twelve (12) months after the final inspection of construction. Thereafter, each impoundment must be inspected no later than twelve (12) months from its previous inspection. Of course, it may be inspected sooner -- then the next inspection would be due no later than twelve (12) months after that inspection. This is a flexible time requirement which allows permittees to stagger inspections and certifications to accommodate numerous impoundments.

Please note that these engineer inspections and certifications of maintenance are separate from the operator examinations for appearance of structural weakness or other hazardous conditions as required by 405 KAR 16:100/18:100 Section 1(10). The operator examinations are to be conducted weekly or quarterly, depending upon the size of the impoundment under the MSHA criteria of 30 CFR 77.216.

CERTIFICATION OF MAINTENANCE OF IMPOUNDMENTS



I, _____, _____, _____
(signature) (registration no.) (date)

hereby certify, in accordance with 405 KAR 7:040, Section 10, that with respect to the following facility,

(check one)

permanent water impoundment coal processing waste dam
 temporary water impoundment coal processing waste impoundment
facility # _____ on permit # _____
permittee name _____

- a) I, or a qualified professional specialist under my supervision, have inspected the structure; and,
- b) based on the inspection(s), I have determined that the structure has been maintained as required by KRS Chapter 350 and KAR Title 405.

The certification report required by 405 KAR 16:100, Section 1(9) or 405 KAR 18:100, Section 1(9) is attached.

Engineer's seal

CERTIFICATION OF MAINTENANCE OF IMPOUNDMENTS

MAINTENANCE INSPECTION REPORT

PERMITTEE NAME: _____ PERMIT NO.: _____

Impoundment No. _____ Date of the Final Certification of Construction _____

Date of Last Inspection _____ Date of this Inspection _____

1. Are there signs of instability, structural weakness, excessive settlement, or hazardous conditions? YES or NO
If "YES," attach a description of the condition, the remedial measures needed, and any necessary emergency procedures.
2. What is the approximate present depth of impounded water at the deepest point? _____ ft.
3. What is the current elevation of the surface water level, in relation to the permanent pool elevation shown on the as-built plan? _____
4. Are the capacities of the sediment storage pool, permanent pool, and storm pool, substantially the same as the approved design? YES or NO
If "NO," attach description of the differences.
5. Estimate the percent of the design sediment storage capacity that remains unfilled. _____ %
6. Describe the type and condition of the vegetative cover on the embankment, and describe any significant erosion. _____

7. Are the spillways obstructed? YES or NO
If "YES," attach description of the remedial measures needed.
8. Is there any evidence of leakage? YES or NO
If "YES," attach description of the location and amount of leakage and discuss implications for stability and safety.
9. Are there any existing or required monitoring procedures and instrumentation other than KPDES? YES or NO
If "YES," attach description.
10. State the current hazard classification. A or B or C
Has the hazard classification changed? YES or NO
If "YES," attach an explanation of the change and the conditions causing the change.
11. Has the structure otherwise been maintained as designed and constructed? YES or NO
If "NO," attach description of maintenance measures needed.

Signature of person conducting inspection

Engineer's Seal

Signature of engineer and registration no.

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