

KS543.4 Cathodic Protection

- A. Cathodic protection is to be provided on conduits through earth embankments in accordance with the criteria set forth in [Kansas Conservation Practice Standard 378, Pond](#), and [Technical Release \(TR\) 60](#). When systems are installed, the anodes are to be monitored to ensure that they are providing adequate electrical current for protection of the steel pipe. The system is to be inspected approximately 1 year following installation. Follow-up inspections and monitoring will be scheduled based upon findings of the first year and the scheduled inspections in the subsequent years.
- B. Conduits designed for earth embankments in accordance with [Kansas Conservation Practice Standard 378](#) that were bridged but did not have anodes installed during construction are to be monitored in accordance with [TR 60](#).
- C. The following procedures are to be followed within each administrative area:
- (1) The assistant state conservationist for field operations (ASTC-FO) will designate a field engineer and/or technician to do the testing, inspection, and monitoring of cathodic protection systems within the area.
 - (2) An inventory by name and location of all structures on which cathodic protection systems have been installed in the area will be maintained and kept current as new systems are installed.
 - (3) Each cathodic protection system will be monitored in accordance with the policy set forth in A. and B. above. The designated engineer or technician will report testing and inspection results on [Form KS-ENG-30](#), will evaluate test and inspection results, and (as needed) will report maintenance needs to the ASTC-FO.
 - (4) The ASTC-FO will advise the appropriate supervisory district conservationist (SDC) or district conservationist (DC) who will, in turn, notify the cooperator or sponsoring local organization of the maintenance needed for each cathodic protection system.
 - (5) The ASTC-FO will maintain a file for items shown in (1), (2), (3), and (4) above. SDCs/DCs are to maintain a copy of [Form KS-ENG-30](#) with the dam's operation and maintenance (O&M) plan.
 - (6) Monitoring will be performed in accordance with [Section KS650.680 in National Engineering Handbook Part 650 \(NEH 650\)](#), *Engineering Field Handbook*.
- D. One set of monitoring equipment will be used within the state and moved from area to area on a request basis. The testing equipment is expensive and requires special care. Untrained persons should not be permitted to use the equipment. Training requests should be arranged with the state conservation engineer.