

**PENNDOT – Engineering District 10-0
ISO 9001 Internal Audit Report
(02/06)**

Department	Audit Process	Date & Time of Audit
Geotechnical	7.5.1 , GT-7	1/21/14 10:00AM

Auditor(s)	Audit Objectives:
1. Nate Adams 2. Mike Curry	To define process for compaction control.

Name of Auditee(s)	Auditee(s) job Function
1. Alicia Kavulic 2. Ray Suhadolnik present (Compaction Control Specialist)	1. District Geotechnical Engineer – completes construction consultation requests or assigns the request to one of the assistant Geotechnical engineers

Item(s) or areas audited
7.5.1 GT7 Compaction Control

Auditee Comments:
<input type="radio"/> None

<u>Plan approved by: (Management Representative)</u>
Tab Boyer

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Audit Criteria

External requirements (questions)

1. No external questions for Geotech

External requirements (answers)

- 1.

Internal requirements (questions)

1. At what point in the project should the compaction control tech review quantities for embankment?
2. Who is responsible for making the final decision in how to remedy failing embankment? (Geotech Eng., ACE, IIC?)
3. On the process for Pipe Trench Backfill, what section of the POM should be referenced for small quantities?
4. How often should non-movement forms be filled out?
5. Who performs the nuclear density testing?
6. Who is the District 10 Compaction Control Specialist?
7. Are there any anticipated updates to any of the flow charts for this process?

Internal requirements (answers)

- 1) Early in the project is best. Geotech gets a list of projects and typically contacts the project staff first to schedule a review date/time.
- 2) The Geotech Unit is responsible for making the final decision, but there is a quite a bit of consultation with the Construction Unit. Many things are considered and the ACE/IIC are kept involved, especially with decisions concerning more funding.
- 3) Section 6. The flow chart box cuts off this information and will be corrected.
- 4) Minimum of one per day per embankment placed. If there is a change in conditions than as many as are needed.
- 5) A certified nuclear gauge operator. Those operators in District 10 are Mark Wasilko, Ray Suhadolnik, and Dave Romanie. Certification involves training, field hours, and refresher courses.
- 6) Ray Suhadolnik
- 7) Updates are coming to Section 6 of the POM that may have an effect on the flow charts, if so, they will be revised. Any reference to Compaction Control Supervisor will be revised to say Compaction Control Coordinator because the current position is not a supervisory role.

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Overall Statement of Effectiveness of the Quality Management System

Areas of strength regarding ability to meet requirements- including observed BEST Practices

- 1) Alicia K. and Ray S. are knowledgeable concerning this process and practices. A best practice is the amount of communication that happens with field staff from the Geotech Unit.

Areas to consider for improvement:

None

Specific observed nonconformities (Findings): If Applicable, Follow-up Scheduled:

1. None

Observations and auditor comments:

The flow charts are well organized and the process is very clear.

Statement of overall effectiveness of the system:

The process is effective and working well.

Distribution of Audit Report:

- Manager of area audited
- A.D.E. Construction
- ISO Management Representative

Unit Manager Comments Including Follow-Up Action: (if any)



Follow up on any new POM updates and also see what documentation/processes change for answering last External audit concerns. TB