



TRANSMISSION AND SUBSTATION FOUNDATION DESIGN SEMINAR

An informative industry seminar that includes both classroom discussions on helical pile design and applications, along with outdoor pile installations and load tests. Case study presentations during the second day tie together real world applications to the classroom presentations and field testing.

The seminar is located at the Hubbell Power Systems, Inc. (HPS) facility in Centralia, Missouri where helical piles and tension anchors are manufactured and where the HPS Research Lab is located. A plant tour is included on the first day of the seminar and will help participants better understand design and quality specifications.

- **Length of Course:**

Two days (not including travel time)

- **Course Fee:**

There is no charge for the class, but participants will need to pay for their own travel and hotel accommodations

- **Date of Course:**

May 12-13, 2020 in Centralia, Missouri

Participants will receive

- Presentation book including slides from seminar
- Hubbell Power Systems Transmission and Substation Foundation Design Technical Design Manual – electronic copy
- Hubbell Power Systems HeliCAP® helical capacity design software
- Lunches each day and dinner on day 1.
- Professional Development Hours Certification – 16 hours

For more information and to register for the event, visit: <http://www.cvent.com/d/fnqjd5>

Seminar Host: Tim Staelens at **573-682-8289** or by email, tmstaele@hubbell.com.



COURSE AGENDA

Tuesday, May 12, 2020

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|-----------------|--|
| 8:00 AM | Introductions and Helical Product Offering |
| 8:30 AM | Helical piles - What, When, Why, and Where |
| 9:30 AM | Factory Tour |
| 11:00 AM | Design & Application of Helical Piles - Transmission and Substation |
| 12:00 PM | Lunch |
| 1:00 PM | Concrete/Steel Grillage Interconnection - Means & Methods |
| 2:00 PM | Cost/Equipment/Time for Helical Pile Foundations |
| 3:00 PM | Corrosion Considerations |
| 3:30 PM | In-the-field Installation of Combo Pile, Pipe Foundations <ul style="list-style-type: none">• Tension Test Installation (SS175)• HPM Grout Pile Installation Demonstration (SS175)• Large Diameter Pile Installation (for lateral load test)• Tension Test (SS175) Concurrently• Compression Test (HPM) Concurrently |
| 5:00 PM | Leave for Columbia |
| 6:00 PM | Dinner |

Wednesday, May 13, 2020

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| 8:00 AM | Comprehensive Design Examples: Substation, Lattice, Guyed, Self Support, etc. |
| 9:30 AM | Class Participation Design Examples |
| 10:00 AM | Research Center Lab Tour and Tests |
| 11:00 AM | Tower Augmentation/Repair |
| 12:00 PM | Lunch |
| 1:00 PM | Case Studies - North America |
| 1:30 PM | Discussion of Guests' Projects/Problems/Concerns |
| 2:00 PM | Testing in the Field <ul style="list-style-type: none">• Lateral Load Test (Large Diameter) Concurrently• Combo Installation Demonstration (SS175 to RS3500 Battered)• Grillage Compression Test - Concurrently |
| 4:00 PM | Load Test Review |
| 5:00 PM | Seminar End |

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