1) 9:30AM-9:35AM: Call to Order and Introductions

2) 9:35AM-9:45AM: Review of Current Technical Committee Members
   (Insert membership list from NTPEP website)

3) 9:45AM-9:50AM: Brief summary of the technical committee (for those states who do not participate in quarterly calls or who are new to NTPEP)
   
   Dave Meggers provided a brief overview of the purpose of the committee. He stated that it is an audit program. As part of the audits, paperwork is checked, samples obtained, comparison samples are collected. 1 audit per plant per year. Review to assure that the plant is capable of making good, consistent products. The program includes HDPE, PPP, and PVC pipes.

4) 9:50AM-9:55AM: Update-Program Status (Fragapane) HDPE – 32 facilities
   a. PPP – 23 facilities
   b. PVC – 2 facilities
   c. NTPEP.org site updated
   d. Third party testing facilities

   Ryan Fragapane provided an update of the THP program. This year 32 HDPE facilities, 23 PPP facilities, and 2 PVC facilities are signed up to be audited. However, some of the PPP facilities produce HDPE. This TC which includes HDPE, PPP, and PVC is now listed on NTPEP.org as the Thermoplastic Pipe (THP) technical committee. Third party
testing contracts expire this summer and will be extended. Proposals will be taken for the 2019 season.

5) 9:55AM-10:25AM: M294 Updates
   a. NTPEP Work plan Changes (Dan Currence)
   b. Audits for M294R begin 2019 (Fragapane)

Recycled material will be allowed with the updated to M294. Dan Currence gave a presentation on HDPE with recycled material. The following items were presented:

- The theme of Earth Day is “end plastic pollution”
- Promote 100% recycling of plastics
- Looked at lifecycle, cradle to grave of plastics
- Industry has been using recycled materials for 40 years in private applications
- Research for this use is being conducted as NCHRP 4-32 and 4-39
- Used to develop proposed changes to M294
- Field and lab testing and validation
- Post-Industrial Resin (PIR). This material has never been brought to the consumer. An example of this is “regrind” material from extrusion waste
- Post-Consumer Recycled (PCR) products are recycled products that have served a consumer purpose and then been recycled
- UCLS test F3181-16. This provides for an assessment of the crack initiation
- NCHRP 870 report studies the field performance of HDPE with recycled content and is basis for changes to M294
- M294 changes allow pipes to be manufactured with PCR and/or PIR
- M294 also adds manufacturer requirements for UCLS 150% elongation at break and 20-minute OIT
- M294-18 expected to be published in June 2018
- ASTM F17
- Revision to ASTM F2306 to include recycled materials
- New ASTM F3308 for determining sampling and testing frequencies of PE with recycled content
- Need to consider limiting NCLS for recycled once a level of confidence in the UCLS test is reached and more experience with the material (number of tests for recycled currently based on quantities produced, while just twice a year for virgin)

Review of Proposed changes to NTPEP work plan reflecting the spec changes.
- F3308 added.
- PCR and PIR definitions added have been added.
- Describes lot sizes for different scenarios/materials virgin/recycled
- Additional finished testing requirements for pipe produced with recycled materials
- UCLS test should predict how long pipe will last in field.

The TC suggested setting up a task force to review and finalize the revised HDPE work plan. The following volunteered to be on the task force: Chase Knight, Greg Baryluk, Doug Baker, Mario Paredes, Nathanial Evans, Michael Pluimer, Matt Romero, Temple Short, and Kean Ashurst. Kean Ashurst will chair the task force.

Other discussion items:

- Auditors will need to be trained in new tests.
- First audits including M294 R will be in 2018 if requested by manufacturers
- Starting in June pipe will need to be marked M294 V for virgin material
- Manufacturers want to produce M294 R pipe as soon as spec is passed.
- Discussion of coordinating the appearance of M294 R pipe with scheduling of NTPEP audits. Want to have NTPEP work plan ready to go at the same time as implementation of M294R if possible.

6) **10:25AM-10:40AM: PVC Program Update**
   a. **Comparison Testing**

Issues with PVC TESTING. Survey was sent out to ask who uses compound data or only that from physical test. Test numbers have been consistent but not necessarily within spec. Dave Meggers suggested we continue testing and collect data to determine possible new baseline and work with COMP to evaluate the test and determine if a new method is needed or adjustment to the current method. Mario Paredes suggested testing the inner liner of the PVC as an alternative method for producing the plaques

7) **10:40AM-10:50AM: SRPE Task Force Update**

Everyone on the task force was asked to provide feedback but didn’t get much interest. Ryan stated that a state needed to take a lead on this to move forward but we are still on track to release in 2019 but need the states’ input on interest

8) **10:50AM-11:00AM: Open Discussion / Industry Concerns**

**Action Items:**
1) States need to provide feedback to the SRPE work plan
2) HDPE work plan task force to work on finalizing work plan to include recycled content