| **Working program** **for presence of REA expert in TAVANA Co. concerning the “Pipeline Vibration Analysis”** |
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| Date | SUBJECT | Schedule/responsible |
| 8:30-12:30 | 14:00-17:00 |
| Sun | 12.11.17 | Pipeline Vibration Assessment (Presented by: Mr. Sergey B. Kravets) | - Available Standards and/or Guidelines- Acceptance criteria | - Visual assessments |
| Mon | 13.11.17 | Potential excitation mechanism(Presented by: Mr. Sergey B. Kravets) | -Mechanical Excitation -Flow induced turbulence-Pulsation-High frequency acoustic excitation -Water hammer-Cavitation-Slug flow |
| Tue | 14.11.17 | Pipeline vibration measurement techniques(Presented by: Mr. Sergey B. Kravets) | -Modal Response technique-Strain (Stress) measurement technique | -Instrumentation and vibration measurement requirements |
| Wed | 15.11.17 | Specialist predictive techniques(Analytical & Computerized Methods) | -Structural FEM, CFD, Acoustic FEM, Pulsation analysis, …-Computerized methods for pipeline vibration analyzing.  |
| Thu | 16.11.17 | Pipeline Vibration Measurement and Analysis(Presented by: Mr. Sergey B. Kravets) | -Methodology-Corrective actions |
| Fri | 17.11.17 |  |  |
| Sat | 18.11.17 | Static & dynamics Simulation using CAESAR II and/or Autopipe Software(Presented by: Mr. Sergey B. Kravets) | Static & dynamics Simulation using CAESAR II and/or Autopipe Software |
| Sun | 19.11.17 |   |  |
| Mon | 20.11.17 | Static & dynamics Simulation using CAESAR II and/or Autopipe Software(Presented by: Mr. Sergey B. Kravets) | Static & dynamics Simulation using CAESAR II and/or Autopipe Software |
| Tue | 21.11.17 | Examining of a sample example | Vibration analysis of main condensate pipeline (Assessment, Analysis and Corrective Actions) |
| Wed | 22.11.17 | Examining of a sample example | Vibration analysis of main condensate pipeline (Assessment, Analysis and Corrective Actions) |
| Note: All subjects should be presented separately (Preferably in English version if available). |