The New Jersey Corporation for Advanced Technology (NJCAT)

National and State Testing and Labeling Programs March 25, 2014 Corporation for Advanced Technology

PROMOTING NEW JERSEY'S EMERGING TECHNOLOGIES

The New Jersey **Corporation** for Advanced Technology (NICAT) is a private/public partnership that pools the best talents and diverse resources of business and industry, entrepreneurs, university research centers, utilities and government to promote the development and commercialization of exciting, new energy and environmental technologies.

Recognizing New Jersey's historic leadership in environmental protection and clean energy alternatives the New Jersey Corporation for Advanced Technology (NJCAT) was established in 1997 as a public-private partnership to accelerate the deployment of emerging environmental and energy technologies.

Technology Verification Program

- NJCAT conducts an independent third-party evaluation program to verify the performance claims of innovative environmental and energy technologies. NJCAT does not perform technology testing.
- Assessment of technology performance claims is based upon an analysis of the underling scientific principles, coupled with a review of independent third-party laboratory and field demonstration performance data.

1999 NJ Energy and Environmental Technology Verification Act (NJSA 13:1D-134 *et seq.*)

- Goal:
 - "develop and implement cost-effective innovative technologies that will benefit the environment and allow the growth of energy and environmental technology companies in New Jersey."
- Established a performance partnership agreement between NJDEP and NJCAT.
- Designated NJCAT as the independent, third-party verification entity. Technologies verified not limited to water technologies.
- Requirement: development of testing protocols and establishment of a verification/certification process between NJCAT and NJDEP.

Verification /Certification Process: Screening Evaluation

Vendor seeking an innovative technology certification:
 Step 1: Contact NJCAT or NJDEP

• A preliminary assessment of the technology is performed:

- Is it a "proven" technology?
- Where is it in its evaluation/assessment cycle?
- Is there an existing third party data base to assess performance?
- What is the performance claim(s)?
- What are the environmental impacts and net beneficial effects?
 Does the technology address regulatory requirements?

Verification /Certification Process: Verification

- Vendor submits technology performance claim(s) and supporting data to NJCAT.
- Verification of the claims is done according to established protocols as agreed upon by both NJDEP and NJCAT.
- Verification report submitted to peer review team and NJDEP for comment.
- Final report is approved by reviewers and placed on agenda of NJCAT Board of Directors for approval.
- The verification report is submitted by NJCAT to NJDEP for technology certification.

Verification/Certification Process: Certification Benefits

- Expedites use of technology by the NJDEP regulatory programs.
 - The NJCAT-NJDEP verified/certified technology may receive more expedited approvals elsewhere.
- Technology information included in NJCAT and NJDEP outreach and education programs.
- The technology will be included in the appropriate State bid specifications, thus increasing the possibility that it will be selected for a specific need.

New Jersey Stormwater Management Rules at N.J.A.C. 7:8

- Require "major development" projects to remove 80% of the project's total suspended solids (TSS) runoff.
- Table 2 at N.J.A.C. 7:8-5.5(c) provides BMP approved TSS removal rates for other than manufactured treatment devices (These are to be determined by testing).
- Management measures must also reduce the average annual nutrient load in the postconstruction runoff by the maximum extent feasible.

Regulation Driven MTD V/C Process

- The New Jersey Stormwater rules (35 N.J.R. 154) clearly establish that manufactured treatment devices (MTDs) may be used to meet the regulatory requirements **provided** the pollutant removal rates are **verified** by NJCAT and **certified** by NJDEP.
- Economic situation in the State has caused NJDEP to modify the MTD certification process over time. <u>www.njstormwater.org</u>
- NJDEP implemented 2 new laboratory test protocols and a procedure for obtaining verification (January 25, 2013) which are posted on the NJDEP stormwater web site.
 - Lab test protocol for hydrodynamic sedimentation MTDs
 - Lab test protocol for filtration MTDs
 - Procedure for obtaining verification for MTDs from NJCAT

Contact Us

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