



# NORTH AMERICAN SERVICES GROUP



*Part of American Meter*



**The North American Services Group of American Meter was formed** to meet the needs of the dynamic and changing North American natural gas utilities marketplace.

With the mandate to develop and provide complete, value added services within the United States and Canada, the North American Services Group brings together the measurement, control and information systems expertise of both the American and Canadian Meter group of companies.

Using the existing and future facilities of these industry leading companies, North American Services Group offers a complete "Remeter" program for all makes and types of aluminumcase, diaphragm type gas meters; *Reverify, Refurbish, RefurbishPLUS and Remanufacture.*



***Milton, Ontario Facility***

These programs have been developed to provide utilities with a high quality and cost beneficial meter service option, either as an outsource facility to handle excess meter shop capacity or as an alternative to the traditional utility owned and operated meter shop.

In all cases, meters are processed using state-of-the-art assembly and testing techniques. O.E.M. or "O.E.M. Equivalent" parts are used exclusively and in all cases, programs are clearly and completely identified and consistently performed. There are no selective repairs and no surprises.



***Cambridge, Ontario Facility***

# REVERIFY

The Reverify program was designed to provide utilities with a comprehensive “In/Out” or pass through test.

Incoming meters are first entered into a data file using available meter badge numbers and or serial numbers. Meters then receive a visual inspection to remove any meters from the Reverification Group showing obvious signs of casting damage, corrosion, etc.



**Hydrotesting**

Meters which pass the visual inspection are then processed through a series of tests to ensure mechanical and measurement integrity.

- Internal Leak Test
- Theft Awareness Inspection
- Hydrostatic Pressure Test
- Index Test
- Differential Test
- Incoming Proof Test
- Gear Ratio Test



**Internal Leakage Test**

Meters passing these integrity tests are then processed to completion, including prime and finish paint and the installation of a new lexan index box. Meters that fail the Reverify program are documented and then moved on to the Reverify & Adjust program. Reverify & Adjust is a logical extension of the Reverify program. The meter is “Adjusted” to bring it back to customer defined proof parameters. If the meter cannot be brought in to “Proof” the meter can be moved on to one of the other North American Services Group RE-meter programs.



**Index and Gearing Checker**

# REFURBISH



**Edmonton Refurbishing Line**

The North American Services Group *Refurbish* program is designed to provide a detailed and complete “above-the-table” repair of residential and commercial and industrial diaphragm type gas meters.

All critical meter wear parts which directly affect measurement accuracy as well as pressure retaining components, are replaced with O.E.M or “O.E.M. Equivalent” parts.



**Cambridge Refurbishing Line**

For Residential and 400 Series meters, *Refurbishing* is restricted to meters twenty (20) years of age or newer. In addition to part replacement, meters undergo a number of processes including the same quality assurance checks as performed in **Reverification**. Meters are pressure tested in accordance with normal operating pressures.

Commercial meters experience a service life and load profile much different to that of residential or 400 Series meters. As a result, *Refurbishing* of commercial meters above the 400 class is restricted to vintages fifteen (15) years of age or newer.



**Finish Paint Operation**

The North American Services Group Refurbish program applies to all makes and types of diaphragm gas meters, American Meter Co., Invensys, National and Schlimberger diaphragm meter product. All work performed carries a one (1) year warranty or parts and associated labor.

In addition to standard Refurbish program, the North American Services Group offers a number of optional programs and processes which allows a customer to customize work or meet special needs, such as AMR installation and programming, T/C conversion, index replacement, top conversion, etc.

## RefurbishPlus



**SNAP 800/1000 Prover**

The North American Services Group *RefurbishPLUS* program is designed to meet the needs of utilities wishing to have a level of “below-the-table” work performed. As such, the *RefurbishPLUS* is designed to ensure that the serviced meter meets the demands of a badged maximum pressure test.

Like *Refurbishing*, *RefurbishPLUS* uses O.E.M. or O.E.M. equivalent parts and carries a one (1) year warranty. All parts and processes included in *Refurbishing* make up a fundamental piece of the *RefurbishPLUS* program. In addition, meters are pressure tested to the badged maximum working pressures.



**Bar Coding Scanning**

Residential and 400 Series meters thirty (30) years of age and newer are candidates for the *RefurbishPLUS* program.

Forming an integral part of the North American Services Group meter management program, *RefurbishPLUS* allows a utility to maximize the yield of meters returned for servicing. Meters which fail the pressure testing process in the *Reverification* or *Refurbishing* operation can be processed under the *RefurbishPLUS* program and put back into service with both long term accuracy and pressure integrity assured.



**SNAP Prover - Residential**

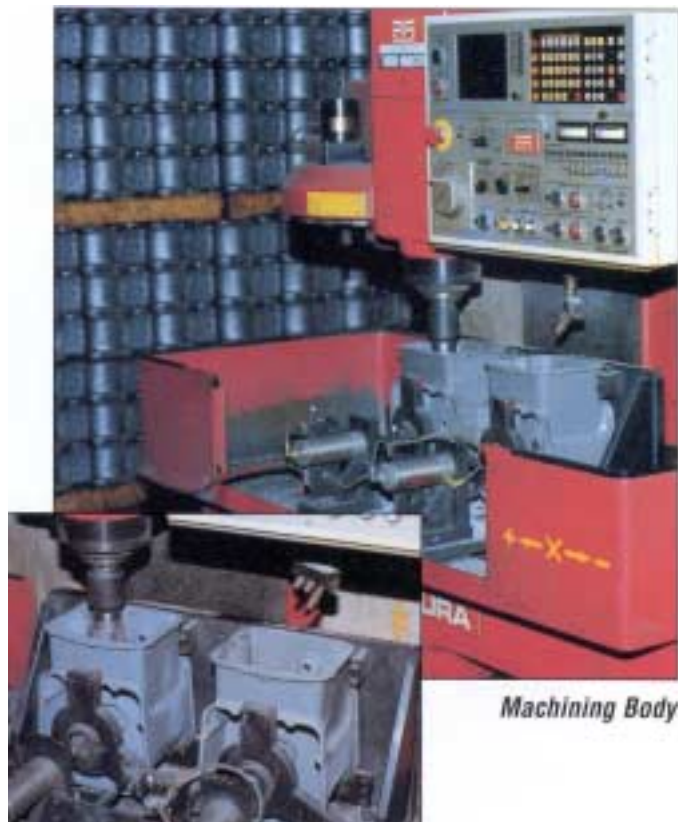
All makes and types of meters, American, Equimeter, Schlumberger and National meters can be serviced and the same options available in *Refurbishing* apply.

# REMANUFACTURING

The North American Services Group Remanufacturing programs must not be confused with Repair, Recondition, Rebuild or any similar services offered.

*Remanufacturing* involves the complete tear down of diaphragm meters to the aluminum core casting components only and the *Remanufacture* of these castings into current production meters. The extensive nature of this program restricts it to American Meter diaphragm meters exclusively.

Residential meters of applicable vintage are stripped down to the core aluminum castings and Remanufactured using the same manufacturing techniques, processes and quality assurance criteria as used in new meters. All internal components, including the valve seat, are replaced. Meters are returned to customers meeting, in full, the specification of new American Meter or Canadian Meter residential products and carry the same applicable warranties as new.



**Cambridge Remanufactured Stripdown**

For American and Canadian Meter class 400 and above, all parts with the exception of the valve seat are removed and replaced, and like residential, they meet the same criteria and warranties as offered on new.

Remanufacturing also offers utilities an environmentally attractive option to scrapping meters. With the exception of castings which are unusable due to damage or fallout during processing, old meters can now be Remanufactured, preserving a non-renewable resource and conserving energy in the process.

Perhaps most importantly, Remanufacturing provides a tangible cost savings for both the utility and their customer, while maintaining the highest level of measurement accuracy.

The “Remeter” programs of the North American Services Group of the American Meter Company offer North American energy providers with the first “Cradle to Grave” approach to meter management. It is the comprehensive nature of the programs that ensures “Remetering” can play a significant role in your overall growth and diversification plans.

Utilizing the state-of-the-art facilities of the American and Canadian Meter group of Companies, these programs offer tangible cost savings, while ensuring the highest level of measurement integrity. All this, plus the environmental benefits the “Remeter” programs offer, equals a unique and flexible way of maximizing the benefits and potential of any meter population.



***Edmonton, Alberta Facility***

Your local American or Canadian Meter sales representative would be pleased to discuss further, how these “Remeter” programs offered by the North American Services Group can benefit your current and future business strategies.



***Erie, PA Facility***