



## MESSAGE FROM THE PRESIDENT

### A Message from the President:

In early October I attended the WaterSmart Innovations Conference in Las Vegas. Beyond the obvious, this exposition provides a shared platform with our counterparts from around the world. It is a place to share and exchange ideas in an atmosphere of collaboration and cooperation. As global water supplies tighten and demand increases the critical need for new water efficient technologies becomes increasingly important. For the past 32 years it has been 2M's tradition to remain on the cutting edge of water and pumping technologies.

This past year, 2M has added a number of new suppliers to our product line. On the turf irrigation side, we are proud to represent Rain Bird Golf. In the water treatment arena we are pleased to have added Water Right products. For waste management in residential, municipal, and commercial applications we offer Wilo equipment. These new products along with our core suppliers provide many new options for our customers.

As a new board member to the Water Systems Council, I have had the opportunity to address many important water issues at each of our meetings. From water well restrictions on residential wells to concerns over pollution, compliance, and permitting, the water systems council represents the best interests of our industry. On a local, state, and regional level, 2M is extremely concerned with legislation related to water rights, the drilling of domestic water wells, and the expansion of our water related economy. All of these water issues impact our children and their quality of life. Each of us needs to take an active role in making our water interests known and in protecting the region ecologically and economically.

Buzz Mills

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## PRESS RELEASE

## Ground Water Montana

### *OUR CHILDREN'S FUTURE USE OF MONTANA'S GROUND WATER IS BEING THREATENED!*

A large segment of Montana's economy is dependent on agriculture, new home construction and domestic water wells. This economy requires ground water to survive. Montana has an abundance of ground water. The present day use is minuscule!! At present ground water use in Montana is less than 2% of surface use. Now the antigrowth movement and DNRC are trying to stop the use of domestic wells based on questionable science that tries to say domestic wells will adversely affect senior water rights.

Studies in other states have shown that domestic homes do not consume ground water. Actually, these studies have shown increased water levels in streams and shallow aquifers when the wells are completed in deeper aquifers!! In Montana “The Nicklin Earth and Water Studies” have shown there is no cumulative impact on stream flow from the use of ground water! No scientific studies have shown any direct adverse affect to senior water right holders! Recent legislation and DNRC rules do not allow ground water use even if there is no adverse effect to senior water right holders. The problem is the DNRC's method of determining adverse effect on senior water rights. Instead of looking at real, measurable adverse effects on water rights, the DNRC uses theoretical models that always show adverse affect. This theory excludes such essential items as spring recharge to aquifers, leakage from rivers, canals and return flows. This method shows theoretical effects hundreds of years in the future which will never actually take place!

Those who will benefit from stopping the use of Montana's ground water include antigrowth organizations such as trout unlimited; senior water right holders that see vast amounts of money if they can stop any new development of ground water or sell their rights in a water banking system and person who believe the propaganda that underground water is being used.

The real losers are the citizens of Montana and their children. Household wells will either not be available or under a very expensive and lengthy permit system. Agricultural users will be limited because they cannot grow or improve their operations. Workers that rely on construction, especially housing for their livelihood need ground water. Jobs what will be lost include engineers, homebuilders, plumbers, electricians, well drillers, excavators, architects, bankers and the list goes on and on.

If our children are to be able to use ground water in the future, we need to contact our legislators and demand our constitutional right to use Montana's ground water.

Signed: - A concerned Montana Citizen—Terry Lindsay

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# Lighting Opportunities for Fall

### Lighting Opportunities for Fall

As summer winds down and fall quickly approaches, many landscapers and sprinkler contractors are busy with blowouts and system winterization. Following this final spurt in activity, there are still opportunities to sell and install lighting systems. 2M Company is proud to be your FX Luminaire distributor. New lighting designs and FX products provide an outstanding selection of quality and beauty for your specific landscape lighting application. Here are a few tips regarding the design and management of your lighting project.

### Lighting Design: Overview

When you are retained to oversee the installation of a planned lighting design there are some basic concepts that will ensure a successful outcome. This short feature will address some of these important considerations. If you require design assistance for this or any project, contact 2Ms' Design Department. Many contractors, however, utilize or are awarded lighting contracts through an architect or landscape designer. If this is the case keep these elements in mind.

### Project Construction Management Overview

Most construction projects must meet specific time, budget, and quality standards. An architect or landscape designer is a natural choice for the role of project manager. In the absence of this person, the burden falls upon the landscaper or lighting contractor. It may be your job to manage people, materials, and the resources required to complete the project. In any case, it is always a good idea to prepare a contract that includes the following points:

- ◆ **Define the Project Parameters** - this is usually done with the owner
- ◆ **Draft the Plan Set** - the blueprints and specifications. This may be provided by the architect, landscape designer, or from personal sources.
- ◆ **Oversee the construction**

There are three basic measurements that define a project. They include cost, time to completion, and acceptable quality standards. It is important to discuss these criteria with the owner and or architect, as these parameters must be measured. On substantial projects, it is imperative that you have owner "buy in" before you start the project.

### Defining the Timeframe

Contingent upon the complexity of the lighting project, other construction work may be concurrently completed. On larger projects there needs to be coordination between the many different trades which could include: general contractor, electrician, mason, landscaper, and home automation specialist. It is vital to work within the parameters of multiple projects. If you are the general contractor this responsibility will fall upon you. If not you will be required to coordinate with the other tradesmen. Meshing schedules is an ongoing task that requires communication. Everyone should be kept current with frequent site meetings addressing the progress and needs of the lighting project as well as other activities.

### Defining the Quality of Standards

Simply put; the more detail provided, the more likely quality standards will be enforced. Don't fall for the "just give me a concept drawing when you manage the project. Written specifications must be provided to insure quality and minimize liability. Understanding industry standards for low voltage lighting is important since 12v work is rarely covered by any codes or inspections. The burden of success is contingent upon the quality of the plans. **If at any time you need technical assistance, contact your 2M, and or FX Luminaire representative.**

## New Rain Bird IC™

### System Improves Irrigation Coverage & Simplifies Maintenance for SunBird Golf Club

#### Project Overview

The SunBird Golf Club in Chandler, Arizona is well known as a friendly, executive 18-hole course. Designed by Gary Panks, ASGCA, the SunBird Golf Club opened in 1985. It features narrow fairways that make it challenging to both low and high handicappers. Prior to the renovation the course irrigated 70 acres of turf with stand-alone controllers. The golf course staff struggled with a host of irrigation management challenges that caused poor sprinkler coverage. The controllers were old technology and challenging to employ effectively.

#### Project Challenges

The SunBird staff knew that the irrigation system required an upgrade, however they didn't have the resources to hire a contractor to complete a total renovation. The new irrigation system was going to be installed entirely by golf course employees and some volunteer labor, so it had to be straightforward and intuitive. “SunBird needed an updated system—one with improved coverage and maintainability,” said Leo Buries, general manager. “We were experiencing long run times, poor irrigation coverage, and the controllers were old and difficult to maintain.”

#### Solutions

To achieve fully integrated central control and increased irrigation efficiency, the team at SunBird chose the Rain Bird IC System, an intelligent control platform that links the rotors directly with the central control. Using significantly less wire and 50% fewer splices, Integrated Control Technology™ eliminates satellite controllers, reduces waste, and cuts down on maintenance costs. The simple design and easy installation greatly appealed to the team.

With the IC System, Integrated Control Technology is built right into the rotor. For SunBird, this meant better control, easier installation, and easier maintenance. “The coverage of rotors and single head control allows pinpoint irrigation. The older system had four to eight heads on a block, which created coverage and maintenance problems. Central control is a huge benefit to both operate and troubleshoot the system,” explains Buries.

Buries and a team of employees and volunteers successfully installed the new control system. “The fewer number of components and simple connections made it easy to install. It is very straightforward—I don't know how much simpler it can get!”

While a self-install may not fit the plans of most golf courses, it suited SunBird's needs. They also came to understand the value of hiring a professional contractor when it comes to large-scale irrigation system installations. “We found issues with the wire path caused by our installation practices. Using a professional contractor would have eliminated those issues.” Buries said. “Fortunately the advanced diagnostics of the IC System were very helpful to isolate and resolve any field issues. We could often identify and troubleshoot a wire issue in as little as 20 minutes using the IC System diagnostics. The ability to measure voltage at any sprinkler right from the computer software is hugely valuable.”

### continued . . . TEST SITE REPORT SunBird Golf Club Chandler, AZ

#### Summary

The IC System and straight-to-the-rotor communication—combined with easy installation—made the Rain Bird IC System the right choice for SunBird. The improved irrigation coverage and superior control has simplified maintenance on the course. With no satellite controllers in the field, the IC System enhanced the aesthetics of the course and kept costs down. “The system is awesome. We no longer have controllers on the course—everything is right at the sprinkler. The system is ideal for our course, which is spread across more than 70 acres,” said Buries.

In addition to being easy to install, the IC System is easy to maintain. Its intelligent two-way communication direct to every sprinkler on the golf course means that staff can manage troubleshooting through intuitive diagnostics built into the central control software. This simplicity also means greater reliability. With fewer parts, wiring, and splices, the IC System offers consistent, reliable performance. If SunBird wants to upgrade or expand, they can easily add IC Series Rotors, and update the Central Control software as enhancements become available.



The IC™ System is easier to install.

It requires less wire and fewer splices, saving material, labor and time

[Contact your 2M Sales Representative for Additional Information](#)

**RAIN  BIRD**

## Why Hydro-Seed?

### Why Hydro-seed?

Hydro-seeding is a quick, proven and affordable way to establish a thick, luxurious new lawn. The process is simplified by creating a mixture of seed, water, fertilizer, fiber mulch, and other additives that is uniformly sprayed onto a prepared soil bed. It should be mentioned that the more thorough the seed bed preparation the better the expected results. The Slurry is sprayed on by a machine that consists of a tank that holds the mixture and an industrial pump that sprays the material through a hose and calibrated nozzle. One of the primary reasons hydro-seeding is so successful is the mulch fibers can retain up to ten times their weight in water holding capacity. This additional moisture insures a quick germination rate. In addition to retaining high levels of moisture, the mulch fiber helps prevent wind and water erosion damage protecting the young seeds from the elements. The mulch mat also has the ability to maintain optimum soil temperature. As the mulch mat dries it essentially creates an almost perfect environment for maximum seed germination. As the plants mature, the mulch fiber gradually decomposes and adds nourishment to the soil. In our region, depending on weather conditions and watering schedules, germination begins in 7-14 days with mowing following in about four weeks.

If you're not familiar with Hydro seeding, you're not alone! It's been one of landscape's best kept secrets. Since its beginnings in the early fifties, it has become one of the most widely used methods of planting in commercial projects including parks, schools, golf courses, and along highways and interstate embankments. You have probably observed the familiar green color that looks as if the ground has been "painted." A few weeks later; the same area is covered with grass! It should be mentioned that hydro-seeding is also widely used on reclamation projects, canals, and high erosion areas that are difficult to cultivate.

**There are some distinct benefits to hydro-seeding.** The following provides a partial list:

### Benefits to Hydro—Seeding

- It's economical, costing less than 50% of a sod lawn in most areas.
- It's faster and easier. A spray-applied nutrient-rich mixture of seeds, wood or straw fiber, and other additives provide an ideal microenvironment for maximum growth all in one step.
- The mulch provides a mat of interlocking fibers creating a micro-greenhouse effect.
- A single application by trained professionals yields superior results the first time.
- Hydro-seeding is safe and non-toxic to kids, pets, and the environment.

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When calculating costs, the contractor must include the expenses associated with soil preparation and or the cost of bringing in additional soil. Remember, one cannot lay sod or hydro-seed over poor soil and expect good results. This is a fixed cost, regardless of sod and or hydro-seeding applications. 2M Company carries a premium line of both straw and wood fiber mulches, quality seed, and fertilizers. Check with your 2M sales rep for additional details and pricing.



### **TURF BOSS**

The Turf Boss from Franklin Electric is designed for residential or light commercial installations where it is necessary to maximize the volume of water being delivered while maintaining the ability to lift water from a source up to 25 feet below the pump

#### **Suitable For:**

- ◆ Agricultural Irrigation
- ◆ Lawn Sprinkling
- ◆ Industrial Dewatering
- ◆ HVAC Systems (Heat Pump and Air Conditioning)
- ◆ Water Transfer and supply
- ◆ Freshwater Pumping
- ◆ Commercial/Industrial Liquid Transfer

# **FPS**



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UPCOMING



**November 2010**

Nov. 09-11 - PPGCSA Peaks & Prairies

Nov. 13-18 - 2M CABO Trip

Nov. 24 - Thanksgiving

**December 2010**

Dec. 5-7 - IA Show

Dec. 7-10 - NGWA EXPO

Dec. 25 - Christmas

**January 2010**

Jan. 1 - New Years Day

Jan.5-6 - MNLA Montana Green Expo

Jan. 19-21 - INLA Convention