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1. The block may be assigned a single run time within a program, and all stations will run together as a group.

*. Each program may be assigned a programmable delay between stations, to allow for slow-closing valves or pressure recharging.

;. Each station or block may be assigned cycle and flow settings to prevent runoff and waste by dividing run times into absorbable increments.

2. Operating System

. The controller display shall offer copy and paste functions for data entry (e.g., cycle and flow), run times, program schedules, flow zone and flow assignments, etc.?

#. Graphical display shall graph the start times and durations of each program over time to allow the user to see the relationship between overlapping programs.

-. The controller shall have seasonal flow settings in 1A to 1E increments. Seasonal flow may be set by program in any of the following ways:

1. Controller level (adjusts all programs for ease of use?)

2. Program level (adjustment by individual program?)

3. Monthly (pre-programmed adjustment for each month of the year?)

4. Solar (automatic daily adjustment from an external sensor?)

!. The controller shall have true calendar date programming allowing specific dates to be skipped at any time of year by program. Date may be recurring or one-time occurrences.

'. The controller shall provide a user management function to limit access to programming and other operations with unique passwords for multiple users, permitting either full or partial access to controller functions.

1. User logins and activities shall be tracked by user ID, if password security is enabled.

2. The controller shall automatically log users out after a period of inactivity.

3. The controller shall allow users to retrieve backup of

5. Flow operations

1. Controller shall feature independent flow management and flow monitoring in each of up to 6 flow zones.
2. Controller shall allow flow budgeting at flow zone and mainline levels to monitor total monthly water usage, and provide an alarm when the budgeted amount is exceeded.

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2. The response shall be configured to either pause all other irrigation and execute the response immediately, or to execute the response together with other flow-managed activities.
 - %. -conditional 4esponse ma" be configured to activate an external /tatus +utput /tation to provide a visual notification that the controller is in an alarmed state.
 7. -conditional 4esponse ma" be configured to switch from one water source <\$,2>? to another based on the status of an external sensor switch.
2. The controller shall feature a separate decoder diagnostic menu with functions to
1. \$rogram decoders
 2. >iew status or configuration of individual decoders
 - %. ssign stations from one decoder output module to another
 7. -reate a decoder inventor"
 5. \$erform diagnostic tests and displa" current draw for all components of the two-wire s"stem
1. The controller shall include a built-in wire tracing function, that generates a traceable sine wave on the two-wire path for use with standard current clamp meters to locate line faults.
 - + The controller shall include a solenoid finder feature, to chatter solenoids for up to %. minutes to facilitate finding lost valve boxes in the landscape.

