

## **IRRIGATION EFFICIENCY PROGRAM LONG-TERM IRRIGATION MANAGEMENT PLAN (LTIMP)**

1. Name of Applicant: \_\_\_\_\_

2. Where is the proposed irrigation system upgrade located?

Legal land description: \_\_\_\_\_ W \_\_\_\_\_  
*Quarter Section Township Range*

3. Which of the following irrigation equipment upgrades are proposed to increase energy- and water-use efficiencies? Please check all that apply.

- Purchase of a low pressure centre pivot to replace a gravity irrigation system.
- Purchase of a low pressure centre pivot to replace a side-wheel irrigation system.
- Purchase of a low pressure centre pivot to replace a high pressure centre pivot irrigation system.
- Purchase of low pressure centre pivot equipment to upgrade a high pressure centre pivot to a low pressure centre pivot system.
- Purchase of low pressure centre pivot pump modifications (end gun booster pump and/or trimmed impeller).
- Purchase of a set of high efficiency nozzles to upgrade an existing low pressure centre pivot.
- Purchase of variable-rate irrigation equipment (controllers and software).
- Purchase of a control panel upgrade for a low pressure centre pivot (including base stations for telemetry).

4. What is the source of water for this irrigation system? Please check.

- Irrigation district
- Private water license

5. What is the source of energy for this irrigation system? Please check.

- Electricity
- Natural gas
- Diesel

6. Will the new irrigation equipment be installed by a licensed service provider?

- Yes
- No

7. What method(s) will you use to decide when to irrigate? Please check all that apply.

- Condition of crop
- Feel of soil
- Personal calendar schedule
- Scheduled by water delivery organization
- Reports on daily crop water use
- Soil water sensing device
- Commercial scheduling service
- When neighbours begin to irrigate
- Plant water sensing device
- Computer simulation models (e.g., Alberta Irrigation Management Model)

8. How will you operate the irrigation system to achieve optimum application efficiency?

- Complete a circle in about one day
- Complete a circle in about two days
- Complete a circle in about three days

9. What factor(s) do you consider to be the most important in deciding the speed of the irrigation system? Please check the two factors that are most important to you.

- Crop water requirement
- Cost of energy
- Soil intake rate
- Soil trafficability
- Surface runoff
- Water conservation
  
- If additional grant funding were made available, would you convert more of your high pressure pivots (if applicable).