Pre-Assessment Dairy Energy Survey Questionnaire

Name: ____________________________________________ Phone: _______________________

1) What is the size of your dairy (i.e. 100 cows)? _________________________________

2) Is your dairy on a separate meter from your home or other facility? ______________

3) Have you ever had an energy survey conducted on your dairy? When? ______________

4) Lighting (Mark all that apply)
   a. What types of lights are primarily used indoors?
      - T12 florescent lighting
      - T8 florescent lighting
      - Incandescent
      - Compact fluorescent
      - Other ___________________________  □ Not Sure
   i. Are the lights on sensors? □ All  □ Some  □ None
   b. Are there outdoor lights used during the night? □ Yes □ No
      i. If you checked yes, what type of lighting is utilized?
         - Mercury Vapor (MV)
         - High Pressure Sodium
         - Metal Halide
         - Incandescent
         - Other ___________________________ □ Not Sure

5) Milk Pumping
   a. How many hours per day do you milk (in total)? ___________ Hours
   b. Do you have a variable speed or variable frequency drive vacuum pumps installed?
      □ Yes □ No □ Not Sure
   c. What is the capacity (cubic feet per minute) of each vacuum pump? __________ CFM
   d. How many milking units are there per vacuum pump? ________ Units

6) Milk Cooling
   a. Is there any form of pre cooling before the milk is refrigerated? (i.e. heat exchanger)
      □ Yes □ No □ Not Sure
   b. Do you have a variable speed or variable frequency drive pump installed for the milk cooling process? □ Yes □ No □ Not Sure

7) Ventilation and Heating
   a. What type of fans are used to ventilate the barn □ High Speed Low Volume (HSLV)
      □ <24” Box Fans □ 36” Box Fans □ 48” Box Fans □ Other ______________ □ Not Sure
   b. How many fans are used (if none write zero) ________________________________
   c. How is the barn cooled? □ Drip system □ Sprinkler System □ Other ______ □ N/A
   d. Are any facilities heated? _____ If so, how: □ Natural Gas □ Electric □ Oil □ Propane

8) Water Heating
   a. What is the estimated hot water usage per day? ___________ gallons/day
   b. What type of water heater is installed? □ Natural Gas □ Electric □ Oil
      □ Propane □ Not Sure □ Solar
   c. Is the water heater a High Efficiency model □ Yes □ No □ Not Sure □ Not Applicable
   d. Is there any waste heat recovery on your dairy? □ Yes □ No □ Not Sure

Thank you; please send this questionnaire with 1-2 years of energy bills (electric, fuel & water) to: Curt Robbins, DRI, 2215 Raggio Parkway, Reno, NV 89512 or fax to: 775-674-7060. For any questions please contact Curt Robbins by email, curt.robbins@dri.edu or phone: 775-674-7129.