

## Special Resin Application: Minimum Required Information

|          |  |          |  |
|----------|--|----------|--|
| Date     |  | Customer |  |
| Contact  |  | Email    |  |
| Location |  | Phone    |  |

|   |  |
|---|--|
| <b>Industry</b>   |  |
| <b>Water Source</b><br>(well, river, process...)        |  |
| <b>Water Use</b><br>(potable, boiler feed, waste, etc.) |  |

| Process Design Requirements |  |      |          |
|-----------------------------|--|------|----------|
| Service Parameters          |  | Unit | Comments |
| Max. Service Flow Rate      |  |      |          |
| Average Daily Usage         |  |      |          |
| pH Range Limitations        |  |      |          |

|                               |  |                               |  |
|-------------------------------|--|-------------------------------|--|
| Specific Ion to be Removed    |  | Target in Treated Water (ppb) |  |
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| Other Limits on Treated Water |  |                               |  |

|   |
|---|
| <b>Existing Pretreatment</b> (Describe Pretreatment present – MM filter, ACF, RO, etc.) |
| <br><br><br><br>  |
| <b>Existing Treatment Plant</b> (if any)  |
| <br><br><br><br>  |

| <b>Influent Analysis</b>                   |             |              |                                    |
|--|-------------|--------------|------------------------------------|
| <b>Parameter</b>                           | <b>Unit</b> | <b>Value</b> | <b>Comments</b>                    |
| Calcium, Ca                                | ppm         |              |                                    |
| Magnesium, Mg                              | ppm         |              |                                    |
| Total Hardness as CaCO <sub>3</sub>        | ppm         |              |                                    |
| Sodium, Na                                 | ppm         |              |                                    |
| Potassium, K                               | ppm         |              |                                    |
| Barium, Ba                                 | ppm         |              |                                    |
| Strontium, Sr                              | ppm         |              |                                    |
| Iron, Fe                                   | ppm         |              |                                    |
| Manganese, Mn                              | ppm         |              |                                    |
| Radium, Ra                                 | pCi/L       |              |                                    |
| Bicarbonate, HCO <sub>3</sub>              | ppm         |              |                                    |
| Total Alkalinity as CaCO <sub>3</sub>      | ppm         |              |                                    |
| Sulfate, SO <sub>4</sub>                   | ppm         |              |                                    |
| Chloride, Cl                               | ppm         |              |                                    |
| Nitrate as NO <sub>3</sub>                 | ppm         |              |                                    |
| Nitrite as N                               | ppm         |              |                                    |
| Bromide, Br                                | ppm         |              |                                    |
| Chlorate, ClO <sub>3</sub>                 | ppm         |              |                                    |
| Fluoride, F                                | ppm         |              |                                    |
| Boron, B                                   | ppm         |              |                                    |
| Silica, SiO <sub>2</sub>                   | ppm         |              |                                    |
| Selenate (SeO <sub>4</sub> <sup>2-</sup> ) | ppb         |              | Detection level to at least 5 ppb  |
| Selenite (SeO <sub>3</sub> <sup>2-</sup> ) | ppb         |              | Detection level to at least 5 ppb  |
| Uranium, U                                 | ppb         |              | Detection level to at least 5 ppb  |
| Molybdate, Mo                              | ppb         |              | Detection level to at least 5 ppb  |
| Antimony, Sb                               | ppb         |              | Detection level to at least 5 ppb  |
| Chromium-6, Cr-6                           | ppb         |              | Detection level to at least 5 ppb  |
| Total As                                   | ppb         |              |                                    |
| As (III)                                   | ppb         |              |                                    |
| Vanadium, V                                | ppb         |              | Detection level to at least 10 ppb |
| Phosphate, PO <sub>4</sub>                 | ppb         |              | Detection level to at least 10 ppb |
| Perchlorate                                | ppb         |              | Detection to at least 1 ppb        |
| Other Oxyanions                            | ppb         |              |                                    |

| Parameter     | Unit  | Value | Comments |
|---------------|-------|-------|----------|
| pH            |       |       |          |
| Oil & Grease  | ppm   |       |          |
| TOC           | ppm   |       |          |
| Free Chlorine | ppm   |       |          |
| TSS           | ppm   |       |          |
| TDS           | ppm   |       |          |
| Conductivity  | μS/cm |       |          |
| Temperature   | °C    |       |          |

| Other Metals   |      |       |          |
|----------------|------|-------|----------|
| Parameter      | Unit | Value | Comments |
| Aluminum, Al   | ppb  |       |          |
| Bismuth, Bi    | ppb  |       |          |
| Cadmium, Cd    | ppb  |       |          |
| Chromium-3, Cr | ppb  |       |          |
| Copper, Cu     | ppb  |       |          |
| Cobalt, Co     | ppb  |       |          |
| Germanium, Ge  | ppb  |       |          |
| Gold, Au       | ppb  |       |          |
| Lead, Pb       | ppb  |       |          |
| Mercury, Hg    | ppb  |       |          |
| Nickel, Ni     | ppb  |       |          |
| Palladium, Pd  | ppb  |       |          |
| Platinum, Pt   | ppb  |       |          |
| Rhenium, Re    | ppb  |       |          |
| Rhodium, Rh    | ppb  |       |          |
| Scandium       | ppb  |       |          |
| Silver, Ag     | ppb  |       |          |
| Tantalum, Ta   | ppb  |       |          |
| Thallium, Tl   | ppb  |       |          |
| Tin, Sn        | ppb  |       |          |
| Tungsten, W    | ppb  |       |          |
| Zinc, Zn       | ppb  |       |          |