

# U.S. Department of Labor

## Bureau of Labor Statistics IPP Checklist

OMB No. 1220-0025

X49



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### 8410

### Hydraulic Turbines, Water Wheels and Regulators thereof; Parts thereof

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## I. Checklist Materials

Checklist Code: **8410**

Checklist Title: **Hydraulic Turbines, Water Wheels and Regulators thereof;  
Parts thereof**

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### A. Checklist Area Description

This heading covers hydraulic turbines and water wheels which can transform into motive power the energy possessed by moving liquids or liquids under pressure (i.e., the flow or fall of water; pressure of water or oil). These engines or motors may operate by directing moving water onto paddles, blades or helicoidal elements fitted to a wheel.

### B. Exclusions

Paddle-wheels for boats, although similar in appearance (84.87)

Hydrometric paddle-wheels (90.15)

### C. Common Initiation Problems

Please make sure to specify the amount of energy generated by the turbine or water wheel.

### D. Additional Checklist Area Information

Subject to the general provisions regarding the classification of parts (see the General Explanatory Note to Section XVI), parts of the hydraulic turbines or water wheels of this heading are also classified here (e.g., rotors, stators, blades and buckets for stators or rotors, casings for spiral conduits, regulators which automatically regulate the flow of water or the angle of the variable pitch rotors or stators, according to type, in order to maintain uniformity of the speed of rotation despite variations in the load, valve needles for regulators).

### E. Customs Ruling Online Search System (CROSS)

The purpose of this section is to help identify examples of NESOI classified items and obtain clarification for any 10 digit classification code. The primary manner in which to comprehensively define the scope of a Harmonized code described as "Other" is by process of elimination. That is, the code should be compared to what is covered by its related Harmonized codes or sub-headings. Another tool to help identify and classify items is the Customs Rulings Online Search System (CROSS) system. CROSS is a database that holds all classification rulings that have been handed down by Customs. Though primarily intended for imports, HTS and Schedule B code overlap allows the CROSS database to be used for exports as well. In order to access CROSS, please click on the following link or type it into your browser: <http://rulings.cbp.gov/>. Make sure that the Collection selection is set to "All" (not "HQ" or "NY") to capture all applicable rulings, and make sure that the NAFTA filter is off. Using the Search bar at the top of the screen you may search by Customs ruling number, or by HTSUSA number. When searching by HTSUSA number, the format

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must be 1234.56.7890, with periods between the fourth and fifth and sixth and seventh digits. Searches may also be done above the 10 digit level. It should be kept in mind that CROSS is not an exhaustive source of NESOI items nor does it cover rulings for every 10 digit code. Rulings may also apply to more than one HTSUSA number, and since new rulings are constantly being handed down by Customs, previous rulings may be amended or overturned at any time. If you have any questions regarding a Customs ruling please contact the IPP Classification team ([Classification\\_Team\\_IPP@bls.gov](mailto:Classification_Team_IPP@bls.gov)) via the IPPQues process.

F. Terminology

**Hydraulic turbines:** consist of a rotor encased in a stator which directs jets of water on to the blades, etc., of the rotor. The main use of hydraulic turbines is in hydro-electric installations

**Francis type:** for medium or low water pressure at large volume. These comprise a one-piece cast steel rotor with large, fixed helicoidal blades, and a stator consisting of conduit tubing, usually spiralled, with large, variable angle guide blades ensuring a radial flow of water around the whole periphery of the rotor, and an axial water-outlet.

**Kaplan type:** for low pressure supplies. These are turbines, closely resembling those described above, both the stator and rotor having adjustable angle blades.

**Pelton type:** for high-pressure water supply of comparatively small volume. The rotor consists of a wheel fitted radially around its periphery with a large number of cups. The stator consists merely of a strong casing with one or more jets directing the water tangentially on to the cups.

**Regulators:** for automatically regulating the flow of water or the angle of the variable pitch rotors or stators, according to type, in order to maintain uniformity of the speed of rotation despite variations in the load.

**Water wheels:** simple engines that consist of a large wheel fitted with flat or hollow paddles of wood or metal around its periphery, the axle of the wheel being generally fitted with a step-up gear. The mechanical power produced is generally used directly in small workshops, saw-mills, flour-mills, etc.

**II. Product Checklist**

SU ID: \_\_\_\_\_

Item Number: \_\_\_\_\_

Verified Sample Reference Period 10-digit TSUSA/Schedule B: \_\_\_\_\_

Verified Current 10-digit TSUSA/Schedule B: \_\_\_\_\_

Product Checklist Code: **8410**

Product Checklist Title: **Hydraulic Turbines, Water Wheels and Regulators thereof; Parts thereof**

Description: This heading covers hydraulic turbines and water wheels which can transform into motive power the energy possessed by moving liquids or liquids under pressure (i.e., the flow or fall of water; pressure of water or oil). These engines or motors may operate by directing moving water onto paddles, blades or helicoidal elements fitted to a wheel.

<p><b>01 Product Information</b> (Select all that apply)</p> <p>001 _____ <i>(Item Identifier - Model#/ UPC#/ Product# / Material ID# / Part#/ SKU#, etc.)</i></p> <p>002 Mrf: _____ <i>(Manufacturer)</i></p> <p>003 Name: _____ <i>(Model Name or Product Name)</i></p> <p>004 Yr: _____ <i>(Model Year or Manufactured Year)</i></p> <p>005 Use: _____ <i>(Primary End Use - Energy Created, etc.)</i></p>	<p>013 Runner 014 Stator 015 Valve Needles 016 Other: _____ <i>(specify part)</i></p>
<p><b>02 Type of Product (Required)</b> <i>(select one)</i></p> <p>001 Regulator 002 Water wheel</p> <p><b>Hydraulic turbine:</b></p> <p>003 Francis type (for medium or low water pressure at large volume) 004 Kaplan type (for low pressure supplies) 005 Pelton type (for high pressure water supply and low volume) 006 Other: _____ <i>(specify machine)</i></p> <p><b>Part:</b></p> <p>007 Blades 008 Buckets 009 Casings for spiral conduits 010 Discharge ring 011 Water temperature regulator 012 Rotors</p> <p style="text-align: right;">Group continued...</p>	<p><b>03 Product Characteristics</b> (Select all that apply)</p> <p>001 Power: _____ <i>(specify in kW)</i></p> <p>002 Terms of Contract: _____ <i>(specify - installation or maintenance agreement)</i></p> <p>003 Wt.: _____ <i>(specify with units)</i></p> <p>004 Other: _____ <i>(specify)</i></p>
	<p><b>04 Other Features</b> (Select all that apply)</p> <p>001 _____ 002 _____ 003 _____</p> <p><b>Item Comments</b></p> <p>_____ _____ _____ _____ _____</p>

**III. Transaction Checklist**

Checklist Code: **8410**

Checklist Title: **Hydraulic Turbines, Water Wheels and Regulators thereof; Parts thereof**

<p><b>01 Type of Sale</b></p> <p>001 Market sale 002 Intra-company transfer, market-based 003 Intra-company transfer, cost-based 004 Intra-company transfer, other basis 005 Intra-company transfer, basis unknown</p>																																																
<p><b>02 Is price related to class of buyer?</b></p> <p>001 Class does not affect the price 002 Class affects the price. Specify:  _____</p>																																																
<p><b>03 Type of Price</b></p> <p>001 Transaction price 002 Net price with all adjustments indicated 003 Estimated price 004 Average price 005 List price with some adjustments 006 List price 007 Index 008 Other  _____</p>																																																
<p><b>04 Is price related to quantity or size ordered?</b></p> <p>001 Not price determining. 002 Price determining. Specify:  _____</p>																																																
<p><b>05 Country to which item was exported</b></p> <p>001 Country or area:  _____</p>																																																
<p><b>06 Repricing Cycle</b></p> <table><tr><td>001 Jan</td><td>Y</td><td>O</td><td>P</td></tr><tr><td>002 Feb</td><td>Y</td><td>O</td><td>P</td></tr><tr><td>003 Mar</td><td>Y</td><td>O</td><td>P</td></tr><tr><td>004 Apr</td><td>Y</td><td>O</td><td>P</td></tr><tr><td>005 May</td><td>Y</td><td>O</td><td>P</td></tr><tr><td>006 Jun</td><td>Y</td><td>O</td><td>P</td></tr><tr><td>007 Jul</td><td>Y</td><td>O</td><td>P</td></tr><tr><td>008 Aug</td><td>Y</td><td>O</td><td>P</td></tr><tr><td>009 Sep</td><td>Y</td><td>O</td><td>P</td></tr><tr><td>010 Oct</td><td>Y</td><td>O</td><td>P</td></tr><tr><td>011 Nov</td><td>Y</td><td>O</td><td>P</td></tr><tr><td>012 Dec</td><td>Y</td><td>O</td><td>P</td></tr></table>	001 Jan	Y	O	P	002 Feb	Y	O	P	003 Mar	Y	O	P	004 Apr	Y	O	P	005 May	Y	O	P	006 Jun	Y	O	P	007 Jul	Y	O	P	008 Aug	Y	O	P	009 Sep	Y	O	P	010 Oct	Y	O	P	011 Nov	Y	O	P	012 Dec	Y	O	P
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<b>07 Price Information</b>	
001 Unit of sale (unit priced):	_____
002 Delivery terms (price basis):	_____
003 Reported Price:	_____
004 Reference Month:	_____
005 Currency of Price:	_____

	Adj Type	Adj Description	Included	Order	Currency	Format	Value
Adj 1	D S		Y / N			* % \$	
Adj 2	D S		Y / N			* % \$	
Adj 3	D S		Y / N			* % \$	
Adj 4	D S		Y / N			* % \$	
Adj 5	D S		Y / N			* % \$	