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AJ544 Allen

SAINT JEAN INDUSTRIES

COBAPRESS

Saint Jean Industries, Inc
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Response to Nov '11 CAV. adequate. AF

To: Allen Gilliam-ADEQ Pretreatment Coordinator

Hello Allen-Attached are the documents/information you requested in your 11-29-11 letter to the Saint Jean Industry facility, in Heber Springs AR, as a result of your November 11, Pretreatment Compliance Assurance visit.

entire facility's schematics are too large to scan & were just placed in IAI's file. AF

I apologize for the attached schematics being the size that they are, but to show the detailed information you requested, this is the best our Engineering Dept. could offer.

Please let me know of any additional needs or questions you may have.

I appreciate your help and support in assuring Saint Jean's meets or exceeds process waste water regulatory requirements

Tim Barry
Environmental, Health and Safety Coordinator

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By VH

Saint Jean Industries-Heber Springs Arkansas

COMPANY DETAILS

Location Type: Single Location

Industry: Motor Vehicle Parts and Accessories

Ownership: Private

Year Founded: 2006

Sales Range: $25,000,000 to $74,999,999

Employees: 250 to 500

COMPANY OVERVIEW

SAINT JEAN INDUSTRIES INC is in the Motor Vehicle Parts and Accessories industry in HEBER SPRINGS, AR. This company currently has approximately 250 to 500 employees and annual sales of $25,000,000 to $74,999,999.

ST JEAN INDUSTRIES –HEBER SPRINGS AR
PROCESS DESCRIPTION AS RELATED TO CONTACT COOLING WATER

MELTING & CASTING OPERATIONS

Pure aluminum ingots and internal generated scrapped aluminum components are melted in gas-fired furnaces rated at 4400#s/hr. The only process associated with contact cooling water is that of graphite/water dip tanks. These tanks located in various Casting areas to facilitate the Forging operation. All waste graphite/water is drummed and disposed of via outside waste management services. Cooling water used as part of the casting operation is non-contact and used solely to cool down molds etc.

During melting operations, the molten metal receives flux to control oxidation. The melted aluminum from the melt furnaces is transferred either directly to the low-pressure casting machines or to electrical powered De-Gas Units and/or natural gas fired Unitherm Ladle Heaters - depending on metal hydrogen content and casting machine needs for replenishment.

The molten metal is transferred to/ from the Melt Furnaces via forklifts, which are identified as insignificant emission sources. For obvious reasons, no water is used anywhere within the Melting area.

At specific production intervals, limited casted components are X-rayed to sample casting integrity.

MOLD & DYE MAINTENANCE OPERATIONS

Casting molds/dyes are manually cleaned after use and then once needed, they are pre-heated in a gas fired Mold Pre-Heat Oven prior to being coated with a mold release finish and/or placed within the Casting Machines.

FINISHING OPERATIONS

After components successfully undergo Casting, they are transferred to our Finishing Dept. This department is equipped with numerous floor-mounted sanders, band saws, enclosed saw cutters, grinders, and two enclosed robotic cells. The function of this department it to use power actuated tools and robotics to trim flash, saw parts etc. and ensure the general part tolerances and shapes are met. There is no contact cooling water sources used as part of this process.

FLUOROSCOPE OPERATIONS

After the Finishing Operations, all components are X-rayed to ensure interior cast integrity using X-ray (fluoroscope) machines. There is no contact cooling water sources used as part of this process. Parts passing X-ray inspection proceed forward; parts failing X-ray are scrapped and re-melted.

PRE-HEAT & FORGING OPERATIONS

Most components after undergoing Finishing Operations are transferred to Forges natural gas pre-heat ovens where components are heated, and then introduced into the Forge Presses. Components are taken from the pre-heat ovens manually and/or by robotics to the Forging operation. Completed forged components are positioned in a trim press for scrap removal and transferred to an inspection area. Quality parts are racked further processes and scrap parts recycled to the Melt department. No contact cooling water is used as part of the forging process.

HEAT TREAT, QUENCH & AGING OPERATIONS

After undergoing Finishing and/or Forging Operations, all parts are heat-treated in the In-Line Continuous Solution Heat Treat Furnaces.

After exiting the Heat Treat Ovens, parts are submerged in Quench Water Tanks to complete this heat treat process. Quench tank water is supplied by and returned to an in-house closed loop cooling tower/system so as to maintain appropriate temperature and water level. If the quench tanks need to be emptied for maintenance-related activities, the water can be sent back to the cooling tower via internal plumbing or boiled off via an in house evaporator.

After being quenched, parts are further processed through gas-fired Age Ovens.

DYE PENETRATE OPERATIONS

After heat treating and aging operations, most components undergo a dye penetrate inspection to identify any surface flaws. Dilute dye penetrate is applied to the component, rinsed, dried, and inspected under black light. Components found with surface problems are scrapped to the Melt Department, and quality parts are transferred to Matching/Assembly for further processing or packaged for shipment. The dye penetrate inspection operation does not have any contact cooling water and dye penetrate waste fluid is evaporated on site.

MACHINING AND FINAL ASSEMBLY OPERATIONS

After undergoing all or some of the aforementioned operations within the Foundry Bldg.1, components are transported to Bldg.2 for close tolerance automated CNC machining and final assembly where support hardware such as ball joints and bushings are installed. There are no contact cooling water sources as part of this operation. Waste coolant is evaporated via an on-site evaporator with the residual oil recycled.

MAINTENANCE/PLANT UTILIY OPERATIONS

There are no sources of, or use of contact cooling water, as part of the site maintenance activities.