Part 573 Safety Recall Report 17E-072

Manufacturer Name : Akron Brass Company
Submission Date : DEC 08, 2017
NHTSA Recall No. : 17E-072
Manufacturer Recall No. : NR

Manufacturer Information :

Manufacturer Name : Akron Brass Company
Address : 343 Venture Blvd
Wooster OH 44691
Company phone : 3302645678

Population :

Number of potentially involved : 296
Estimated percentage with defect : 100 %

Equipment Information :

Brand / Trade 1 : Akron Brass Co/Ultrajet
Model : Style 1820
Part No. : 1820xxxx
Size : NR
Function : Nozzle
Descriptive Information : This firefighting nozzle has two modes in which water is delivered – "Solid Jet Mode" and "Fog Mode". Depending on the mode in which the nozzle is operating, water is delivered through the nozzle in a different pattern. The method of water delivery is set based on the rotation of a Bumper located on the end of the nozzle attached to the nozzle body. The nozzle is equipped with a shut-off valve which enables the user to control the water flow.
All nozzles produced from the start of production in November 2016 through November 2017 were produced with a cast aluminum nozzle body. All units produced with this cast nozzle body are included in the recall population.
Production Dates : NOV 01, 2016 - NOV 30, 2017

Description of Defect :

Description of the Defect : Nozzles can fracture at the connection point between the nozzle body and the shutoff body if the nozzle is dropped while attached to a pressurized hose.
FMVSS 1 : NR
FMVSS 2 : NR
Description of the Safety Risk : If the nozzle fractures while the hose is pressurized the water flow will change pattern, creating an increase in reaction force, potentially causing the fire fighter to lose control of the hose. The water flow pattern will change from a "fog pattern" to a solid stream of water which could slow the progress of firefighting efforts and potentially expose firefighting personnel to an

	increased risk of injury.
Description of the Cause :	Insufficient strength material in the nozzle body.
Identification of Any Warning that can Occur :	None.

Supplier Identification :

Component Manufacturer

Name :	NR
Address :	NR
	NR
Country :	NR

Chronology :

On May 30, 2017, Akron Brass received a nozzle from a fire fighting training academy customer with a broken nozzle body. The broken nozzle was believed to be the result of mishandling at the training academy, where equipment is generally used more frequently and by untrained personnel.

On November 21, 2017, Akron Brass personnel on site at the same training academy observed a broken nozzle at the facility. The customer had not previously reported the nozzle to Akron Brass. From November 22 – December 1, 2017, Akron Brass conducted an investigation into the cracked nozzle which included developing a test procedure to assess whether the nozzles could be compromised. In the interim, production of the nozzle was stopped. Akron Brass' testing revealed the nozzles remained intact when thrown and dragged in various positions and observed that if the nozzle hit the ground or hard surface in an unexpected manner where the load fell on the mechanical joint between the nozzle and the shut-off body, cracking was possible. All prior testing of the part had not revealed any cracking and had met industry standards for durability and drop testing.

On December 1, 2017, Akron Brass received a report of a unit located in China experiencing a similar failure. The same day, Akron Brass decided to conduct a recall to address this issue.

Description of Remedy :

Description of Remedy Program :	Customers will be asked to return affected nozzles to Akron Brass where they will be retrofitted with one new component and O-rings or replaced with a new nozzle. The associated nozzles will be calibrated and tested before being returned to the customer. Akron Brass will coordinate all shipping arrangements from the customer to our facilities and back to the customer. All costs associated with shipping & retrofit of the nozzles will be incurred by Akron Brass with No Charges being assessed to the customer directly relating to this defect.
How Remedy Component Differs	Nozzles that have been upgraded will have a nozzle body that is larger in

from Recalled Component :	diameter at the connection point with the shutoff body. The larger diameter is visible when looking at the nozzle from all sides.
Identify How/When Recall Condition was Corrected in Production :	New components/design were released to production 11/27/2017.

Recall Schedule :

Description of Recall Schedule :	Pending NHTSA Approval: 12/29/17 - Notification of the defect will be sent to the distributors who sold the nozzles and the end users advising specific details around the defect and informing them of additional communications to follow regarding the process for returning the nozzles to Akron Brass for retrofitting. Week of January 15 – Replacement nozzle parts will be available. Week of January 15 – Nozzles will begin to be received back at Akron Brass and retrofitted with the new component and O-Rings. The associated nozzles will be calibrated and tested before being returned to the customer. Follow-up will continue on-going to reach the Nozzles Users and make appropriate arrangements for the retrofitting of the nozzles.
Planned Dealer Notification Date :	DEC 29, 2017 - JAN 19, 2018
Planned Owner Notification Date :	JAN 26, 2018 - FEB 09, 2018

Purchaser Information :

The following manufacturers purchased this defective/noncompliant equipment for possible use or installation in new motor vehicles or new items of motor vehicle equipment:

Name :	NR
Address :	NR
	NR
Country :	NR
Company Phone :	NR

* NR - Not Reported