CITY OF COFFEYVILLE
BOARD OF COMMISSIONERS AGENDA ITEM

MEETING DATE	March 22, 2016	
RESOLUTION OR ORDINANCE NUMBER	R-16-56	
AGENDA TITLE	**Boiler #4 - Boiler Feed Pump Motor Repairs**	
REQUESTING DEPARTMENT	Electric Generation	
PRESENTER	Tony Lawson	
FISCAL INFORMATION	Cost as recommended:	Not to Exceed $39,077.00
	Budget Line Item:	800-5-030-620
	Balance Available	$175,000
	New Appropriation Required:	[ ] Yes [X] No
PURPOSE	Execute an agreement with Independent Electric Machinery Company for repairs on the #4 boiler feed pump motor as the result from bearing failure.	
BACKGROUND	On March 3, 2016 at 19:00 hours this boiler feed pump incurred a bearing failure which resulted in major damage to the motor bearings, seals, stator, windings and rotor. Load on the machine was immediately lowered and the pump was shut down, this has resulted in a de-rate of 40% in capacity on Unit #7, approximately $2217.00 per day.	
SPECIAL NOTES		
ANALYSIS		
PUBLIC INFORMATION PROCESS		

BOARD OR COMMISSION RECOMMENDATION	
STAFF RECOMMENDATION	Staff recommends the Mayor be authorized to enter into an agreement with Independent Electric and Machinery Company for repairs on the Boiler Feed Pump Motor in the amount of not to exceed $39,077.00
REFERENCE DOCUMENTS ATTACHED	Estimated Repair Quote Damage Report

RESOLUTION NO. R-16-56

A RESOLUTION TO ENTER INTO AN AGREEMENT WITH INDEPENDENT ELECTRIC COMPANY FOR REPAIRS TO A 700 HP MOTOR FOR THE CITY OF COFFEYVILLE ELECTRIC UTILITY.

BE IT RESOLVED by the Board of Commissioners of the City of Coffeyville, Kansas that the Mayor be and is hereby authorized to enter into an agreement with Independent Electric Company to perform repairs to a 700 HP motor in the amount not to exceed $39,077.00 for the City of Coffeyville Electric Utility.

ADOPTED THIS 22nd DAY OF MARCH, 2016.

_____
Craig Powell, Mayor

ATTEST:

_____
Cindy Price, City Clerk

APPROVED AS TO FORM AND LEGALITY:

_____
Paul Kritz, City Attorney

INDEPENDENT ELECTRIC

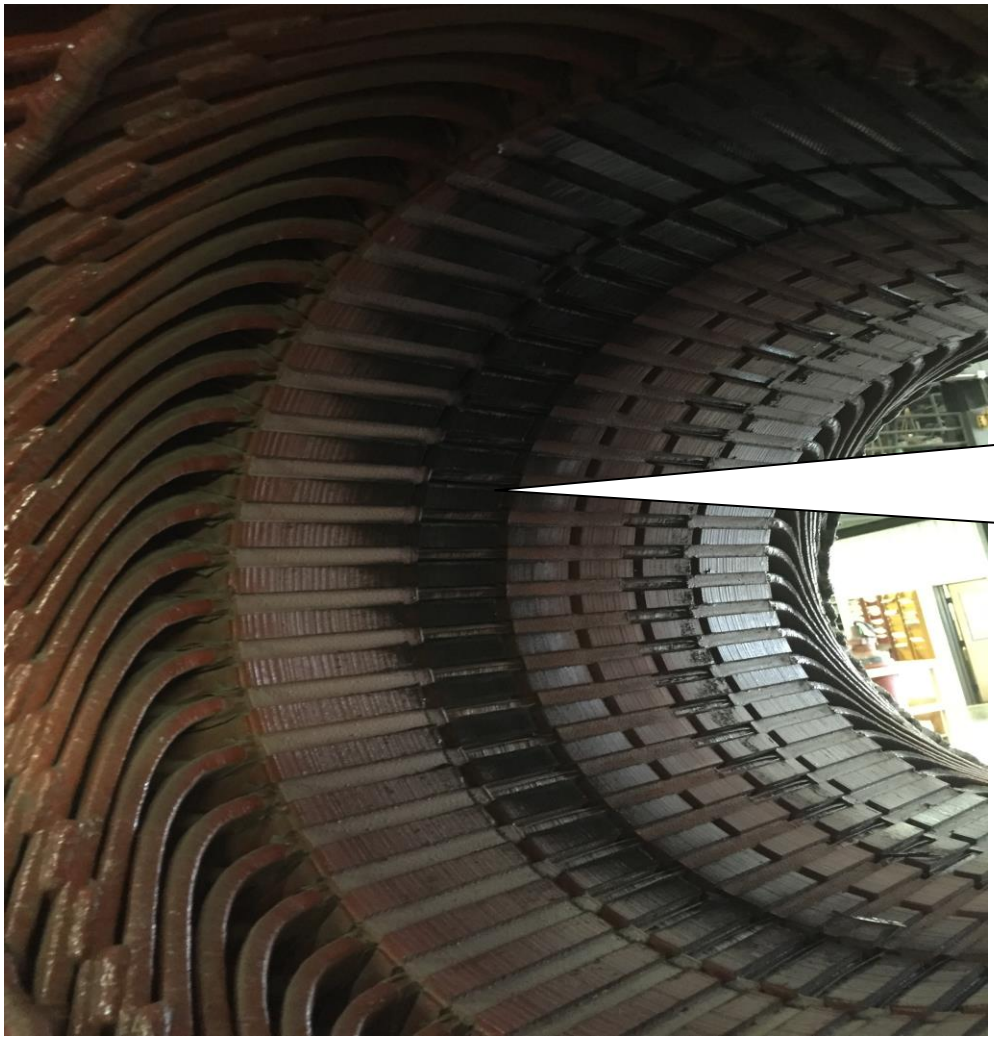
March 7, 2016

Ken White
City of Coffeyville

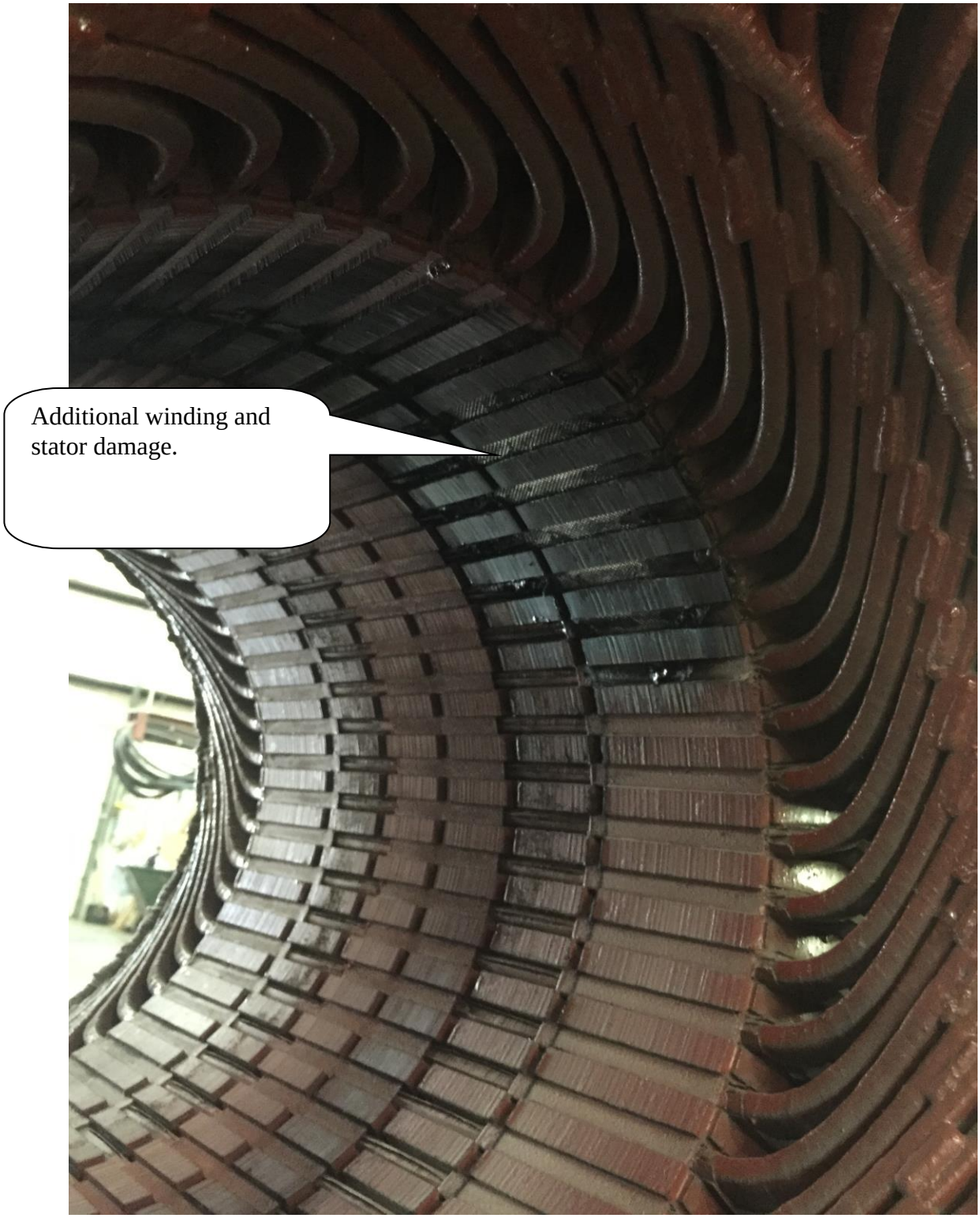
RE: 700HP Allis Chalmers

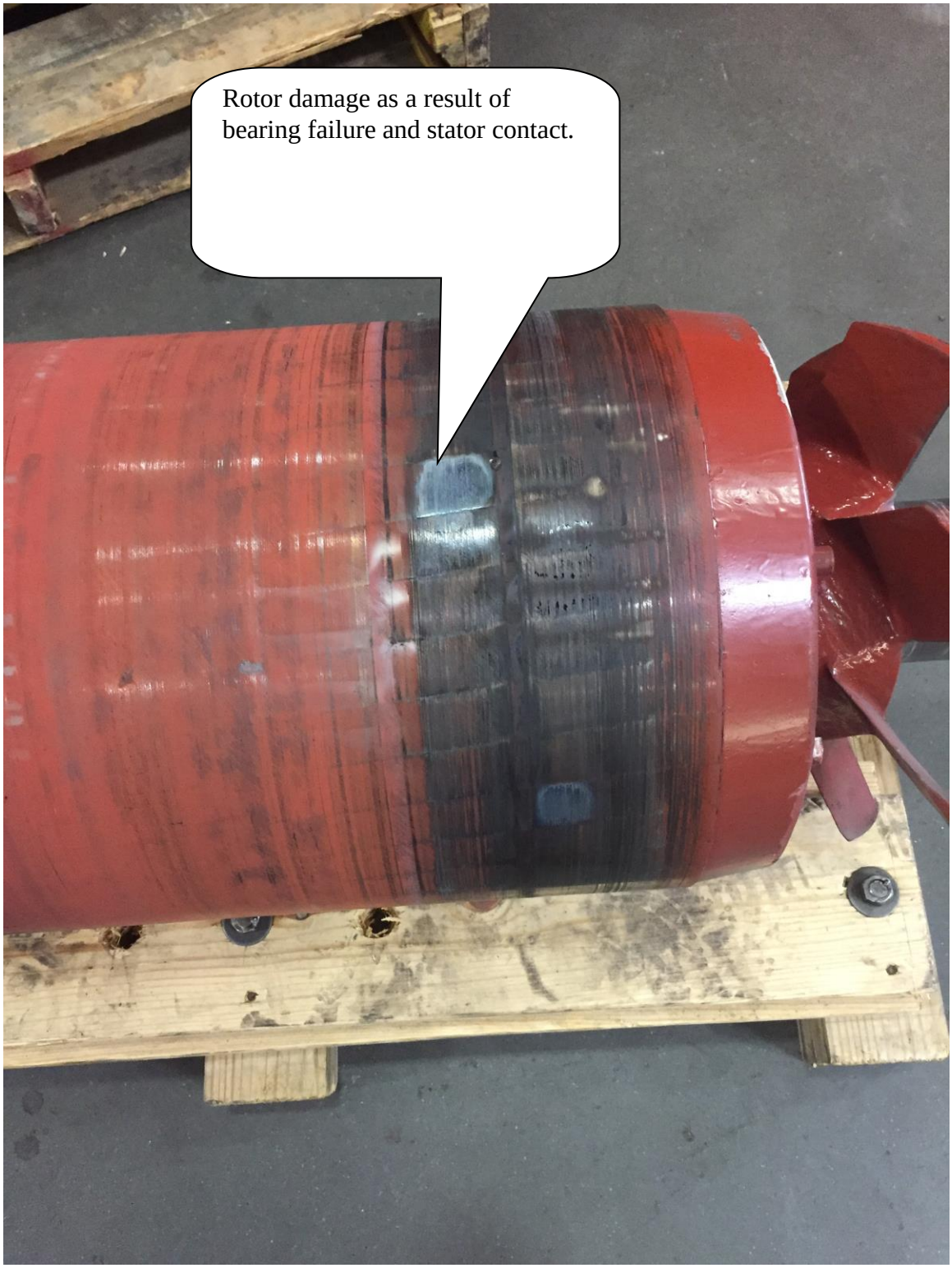
Ken,

Please review the attached damage that occurred as a result of the failure in the above referenced machine:



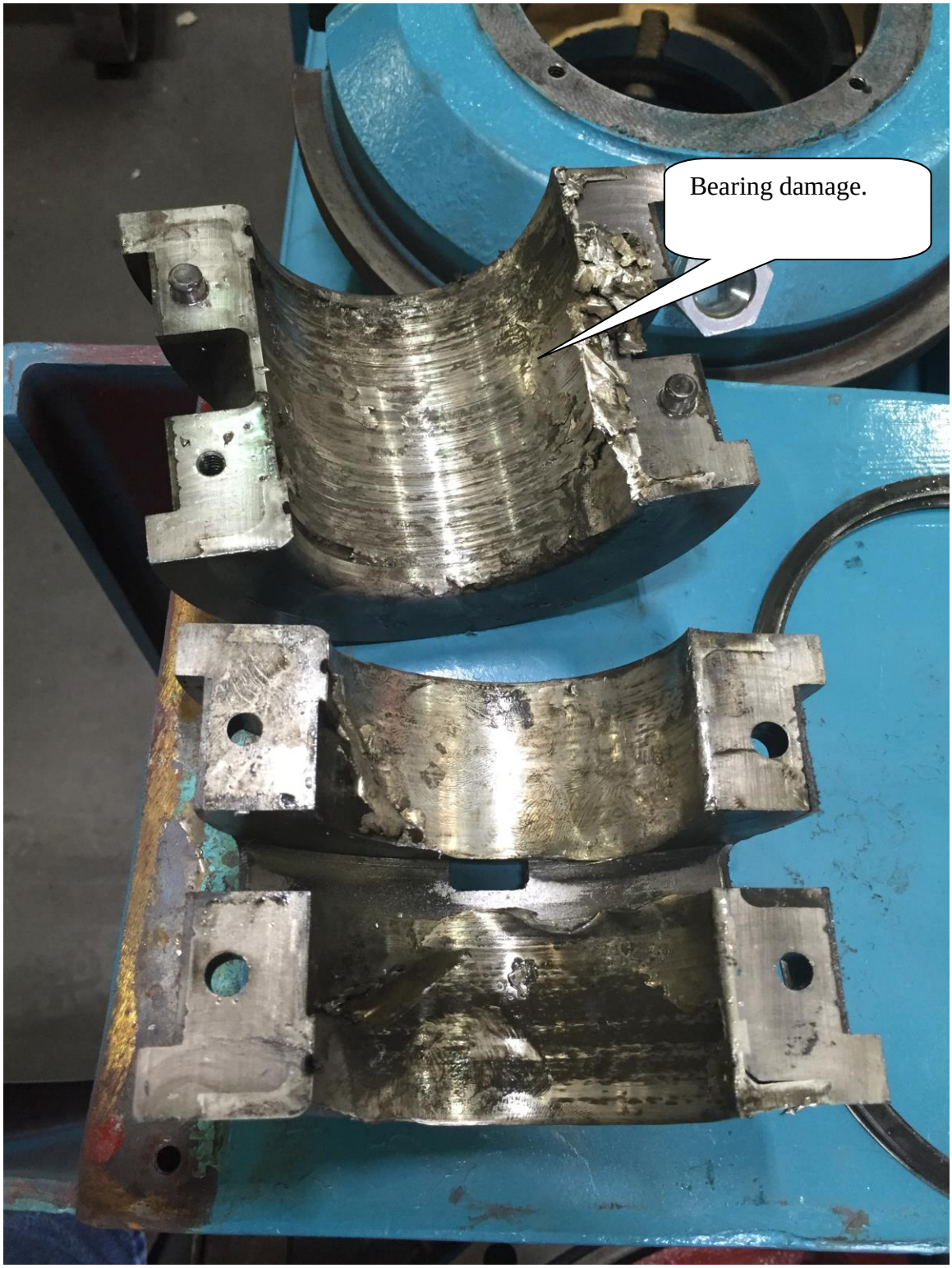
Internal stator and winding damage.

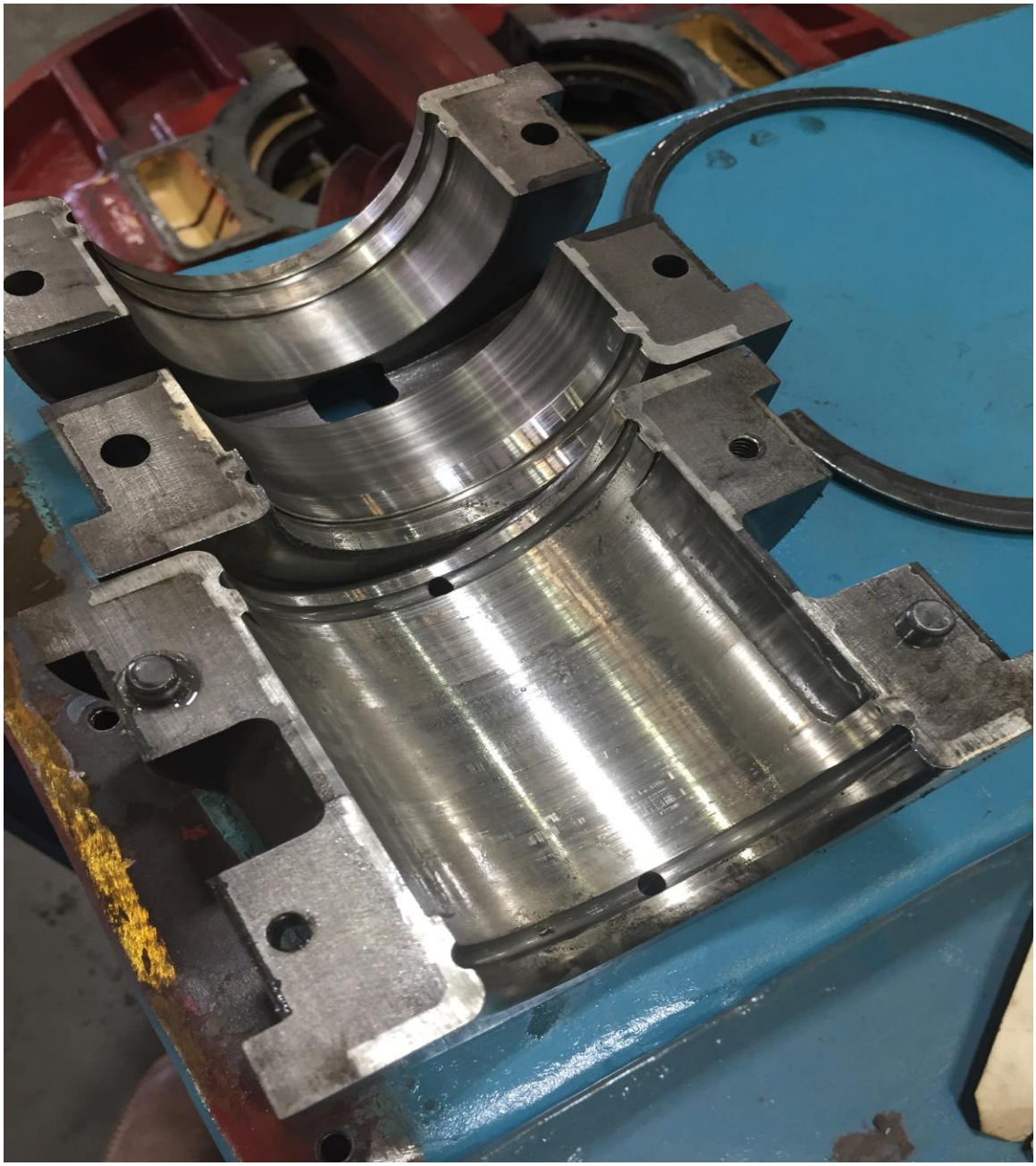

Additional winding and stator damage.


Rotor damage as a result of
bearing failure and stator contact.

Seal surface damage that resulted from bearing failure and seal contact.

Labyrinth seals on both ends wiped.


Bearing damage.



Regards,

Scott Wilkins
Manager Motor Shop Operations
Independent Electric
913-904-3305

INDEPENDENT IE ELECTRIC
Serving Industry for Over 100 years Since 1908
EASA

Kansas City Division

Independent Electric Machinery Company
4425 Oliver Street
Kansas City, KS 66106

Office:
Ph: 913.362.1155
Fx: 913.362.5533
www.iemco.com

Sales:
Ph: 800.833.2610
Fx: 913.904.3330
sales@iemco.com

Revised **Quote**

Attn	cc
KEN WHITE	
Phone:	**Fax:**
(620) 252-6142 x	(620) 252-6141 x

Quote Number
WI-RRE1092

Job Number
KC-R2278

Customer Information

COFFEYVILLE, CITY OF
PO BOX 1629
COFFEYVILLE, KS 67337

Ship To Information

COFFEYVILLE, CITY OF
605 SANTA FE ST
COFFEYVILLE, KS 67337

Quote Date:	**2/3/2016**
Customer ID:	121777
Quoted By:	R Wilkins
RFQ #:	
Salesperson:	R Wilkins
Terms:	Net 30

Nameplate Information

Ship Via:

Make	ALLIS CHALMERS	**Rating**	700 HP
RPM	3580	**Frame**	588USZ
Enclosure	-	**Rated V.**	2300
Rated A.	153	**Serial #**	1-5112-44321-1-2
Model	041	**# of Phases**	3
Frequency (Hz)	60	**Configuration**	F1
Duty	Continuous	**Max. Ambient Temp.**	40
NEMA Code	G	**Service Factor**	1.15

Quote Information

Reason For Work: City of Coffeyville outage work. Potential ODE sleeve bearing failure.
EVALUATION OF MOTOR FOR REPAIR

Cause of Failure: SLEEVE BEARING FAILURE RESULTING IN STATOR AND WINDING DAMAGE.

Required Work: MINOR AC MOTOR REPAIR:
DISMANTLE, CLEAN, AND INSPECT. ELECTRICALLY TEST WINDINGS. HYPOT AND SURGE TEST STATOR WINDINGS. RESIN TREAT WINDINGS. MIC AND RECORD ALL MECHANICAL FITS. DYNAMICALLY BALANCE ALL ROTATING PARTS. INSTALL NEW RE-SPUN BABBITTED SLEEVE BEARINGS. ASSEMBLE, TEST RUN AND RECORD ALL DATA. PAINT AND COMPLETE.

ADDTIONAL WORK AS A RESULT OF BEARING FAILURE:
MACHINE AND REPAIR DE AND ODE INNER AND OUTER SEAL SURFACES. REPAIR AND MACHINE DE AND ODE JOURNAL SURFACES. REPAIR AND PROVIDE FOR NEW BABBITTED SLEEVE BEARINGS. PYROGENIC PROCESS INDUCTION STATOR FOR WINDING REMOVAL. CORE LOSS TEST STATOR CORE. REWIND FORM COIL STATOR. VPI PROCESS FORM COIL STATOR. OVERDIPP AFTER VPI PROCESSING INDUCTION STATOR.

Comments: All repairs will be made in accordance with the EASA/ANSI AR100-2015 Recomended Practice for the repair of rotating elctrical apparatus. Any addiitional repairs identified through the inspection process will be presented for approval. Addtional cost for lazer alignment and hot alignment $2,300.00 / based on machine availlability and acces. Additional estimated cost for removal and re-installation of the motor $2,280.00. This portion of work may require some assistance from plant personel/existing equipment to complete this task.

	Pick Up On	Lead Time	Total Price
Work Based on Straight Time:		21 STANDARD WORKING DAYS	**$26,470.00**
Work Based on Overtime:		ESTIMATED 14 DAYS	**$31,680.00**

New Replacement Unit(s)	Lead Time	Total Price

SIGNATURE: _____ **DATE:** _____

PRINT NAME: _____ **PO# (If not yet issued)** _____

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sales@iemco.com

Revised **Quote**

Attn	cc	Quote Number
KEN WHITE		WI-RRE1092
Phone:	**Fax:**	**Job Number**
(620) 252-6142 x	(620) 252-6141 x	KC-R2278

Customer Information	Ship To Information		
COFFEYVILLE, CITY OF	COFFEYVILLE, CITY OF	Quote Date:	2/3/2016
PO BOX 1629	605 SANTA FE ST	Customer ID:	121777
COFFEYVILLE, KS 67337	COFFEYVILLE, KS 67337	Quoted By:	R Wilkins
		RFQ #:	
		Salesperson:	R Wilkins
		Terms:	Net 30

	(+ Freight)

Quotes Do Not Include Sales Tax or Freight, Unless Otherwise Noted.
We Are not Responsible For Items Left Over 90 Days.
Quote is valid for 30 days.

SIGNATURE: _____ **DATE:** _____

PRINT NAME: _____ **PO# (If not yet issued)** _____