



N.P. 1363  
6-24

# NORTHERN PACIFIC RAILWAY COMPANY

## AUTHORITY FOR EXPENDITURE

1929 YEAR

SUPERINTENDENT'S NO.

Mech.

DEPT. No. 25-29

A. F. E. NO. 216

No.

ENGINEERING DEPT. No.

Minn.

A 12

L.S.

Mont.

Tac.

DIV.

DISTRICT  
BRANCH

STATE Wash.

VAL. SEC. NO. 4

**AUTHORITY IS REQUESTED FOR A NET EXPENDITURE OF \$ 1 662**

Accounting distribution as follows: (Distribution to be made in General Office.)

	Operating Expenses	Profit and Loss	Net Operating Expenses	Net Profit and Loss
Cost of property retired	\$	\$	\$	\$
Value of salvage				
Incidental costs			A B C	
Total to Operating Expenses				\$
Total to Profit and Loss				
To Material and Supplies				
To Bills for Collection				
To Other Accounts				
Net charge to investment account—Additions and Betterments			556 550 556	1 662 ✓
Total of distribution			556 550 556	1 662 ✓

Budget reference: In 1929 budget, item No. 519

Class of Work: No. 22 ✓

Joint facility contract reference:

The location is on this company's property. To secure rights, it will be necessary

Location: Brainerd )  
Livingston ) Boiler Shops  
So. Tacoma )

Title Construct and install roller flue welders  
and

Reason: In order to satisfactorily handle the reclaiming of boiler flues which are partially worn out, splicing together by means of welding the good portions of two or more flues, it is proposed to construct and install at Brainerd, Livingston and South Tacoma Boiler Shops roller flue welders as shown on drawing No. 33488 by means of which we can produce uniform and satisfactory welds and avoid transporting flues to and from Brainerd with incidental expense of loading and unloading, and also reducing the number of flues carried in stock at Livingston and South Tacoma.

The only flue welder now in service for reclaiming flues is a Draper flue welding machine of the hammer type purchased in 1918 for Brainerd Boiler Shop. We have been shipping into Brainerd flues from all points on the line for reclaiming. This machine has not been entirely satisfactory due to the fact that the hammered welds are not uniform, being thick in some places and thin in others.

The Draper flue welder will be retained for swedging 5 1/2" superheater flues to 4 1/2".

Estimated annual saving in labor and transportation \$2000.00.

Work to be done by company force under charge of Shop Superintendents

Accounting to concentrate in the office of Division accountants

Checked and Entered  
President's Office

Date Jan. 29th, 1929.

Signature and Title: Gen'l Mech'l Supt.

APPROVED:

General Superintendent.	Asst. Chief Engr. or Engr. Maint. of Way.	General Manager.
Mech. Supt., Supt. Telg. or Signal Engr.		
Chief Engineer.		Vice President.
For Comptroller.	Charles Donnell President	Date of Final Approval { FEB 5 1929

COMPTROLLER'S RECORD OF NOTICE OF APPROVAL AND OF COMPLETION

Form No. 1346 issued 19 Work begun 19 Work finished Feb. 29 1929