

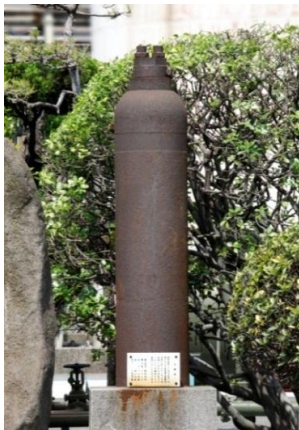


Registration No.	Number 00095		
Registration Date	September 11, 2012	Registration Category	Category 2

Name (Model, etc.)	【 Artifacts from Japan's early Claude process ammonia production 】 (1)Ammonia reactor base (2)Production diary (3)Ammonia separator		
Location	Shimonoseki City, Yamaguchi Pref		
	Shimonoseki Mitsui Chemicals, Inc.		
Owner (Custodian)	Shimonoseki Mitsui Chemicals, Inc.		
Manufacturer (Company)	(1)Made in France (2)Claude Nitrogen Industries Co., Ltd. (3)Made in France		
Year Manufactured	(1)1923 (2)1928 (3)1930		
Reason For Selection	The Claude process for ammonia production was first successfully used in Japan in 1924 at a factory in Hikoshima, Shimonoseki. The Claude process and the Casale process were the earliest ammonia synthesis techniques used in Japan. The breakthrough success using the Claude process, which requires pressures of up to 1,000 atmospheres, was particularly significant because it had only just been achieved in France, the country where the technique was originally invented. The reactor base, the candidate for registration, held two reactors at the Shimonoseki plant. The separator was in use from 1930 onwards. The production diary, the oldest surviving example of its type, shows daily operating records for the period February 1 through to April 6 1928. Ammonia production was a key global industry at the time, when ammonia was used extensively for boosting food production and in military applications. These artifacts provide valuable information about this important period of industrial development.		
Registration Standard	1 - A		

Open/Closed to Public	Closed to Public		
Photo	(1)		(3)
	(2)		
Other useful information			