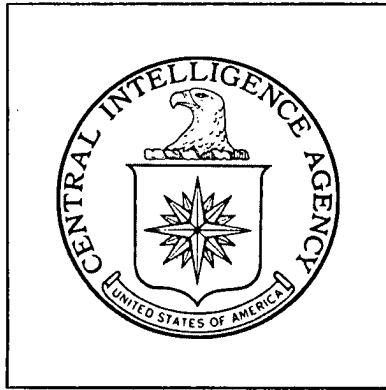
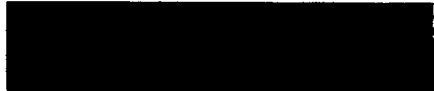


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**DIRECTORATE OF
INTELLIGENCE**

**Industrial Facilities
(Non-Military)**

Basic Imagery Interpretation Report

Chi-lin Chemical Fertilizer Plant

Chi-lin, China



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INSTALLATION OR ACTIVITY NAME		COUNTRY	
Chi-lin Chemical Fertilizer Plant		CH	
UTM COORDINATES	GEOGRAPHIC COORDINATES	COMIREX NO.	WAC-PIC NO.
N/A	43-55-28N 126-32-35E	N/A	0290-31
MAP REFERENCE			
N/A			

LATEST IMAGERY USED	NEGATION DATE (If required)
	N/A

ABSTRACT

This report presents a detailed functional analysis of the production components of the Chi-lin Chemical Fertilizer Plant. This is one of China's newest and largest nitrogen fertilizer plants. The primary products are ammonia based compounds. The basic plant was in operation when first studied on photography of June 1962. By May 1966, the capacity of the plant was increased by approximately 50 percent. Since 1966 construction has continued; however, no significant changes were noted.

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INTRODUCTION

The Chi-lin Chemical Fertilizer Plant is one of China's newest and largest producers of ammonia based compounds. The plant is located approximately 6 nautical miles (nm) north of the center of Chi-lin on the east bank of the Sung-hua River (Figure 1). Electric power is received from the Chi-lin Heat and Power Plant TETS [redacted] which is located approximately 3 nm to the southeast.

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Excellent quality photography from [redacted] was used for this study (Figure 2).

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BASIC DESCRIPTION

Physical Features

The plant, basically rectangular in shape, measures approximately 3,000 feet by 4,000 feet and occupies 275 acres. It is secured by a wall and is served by a good road network and a spur from the Chi-lin to Chiao-ho rail line.

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Operational Functions

The primary function is the manufacture of ammonium nitrate. Ammonia is synthesized by combining nitrogen obtained from air separation (Item 8, Figure 3) with hydrogen from coal gasification (Items 1-7) and from the electrolysis of water (Items 23-24). Part of the ammonia is oxidized and the resulting nitric oxide gases are absorbed in water to produce nitric acid (Items 14-15). The remaining ammonia is reacted with the nitric acid to form ammonium nitrate (Items 17-21).

Methanol, dry ice, explosives and concentrated nitric acid are manufactured from by-products of the fertilizer production. The probable heavy water plant located in the complex produces hydrogen which is used in the synthesis of ammonia.

The major production facilities for nitrogenous fertilizer have been identified (see Figure 3). There are several major production buildings which have not been identified; however, their location and access to ammonia would indicate their function is the production of ammonia based compounds.

Status and Activity

The basic plant was operational when first observed on coverage of June 1962. Analysis of photography dated May 1966 revealed that the plant's production capacity was increased by approximately 50 percent since 1962. This estimated increase in capacity is based on the addition of an ammonia converter tower, a prilling tower, gas purification facilities, and a gas-holder. Since 1966 construction has continued; however, only minor changes have been observed (Figure 3).

On all usable photo coverage over the area between 1966 and 1968, the plant appeared to be in operation with seasonal variations in production activity.

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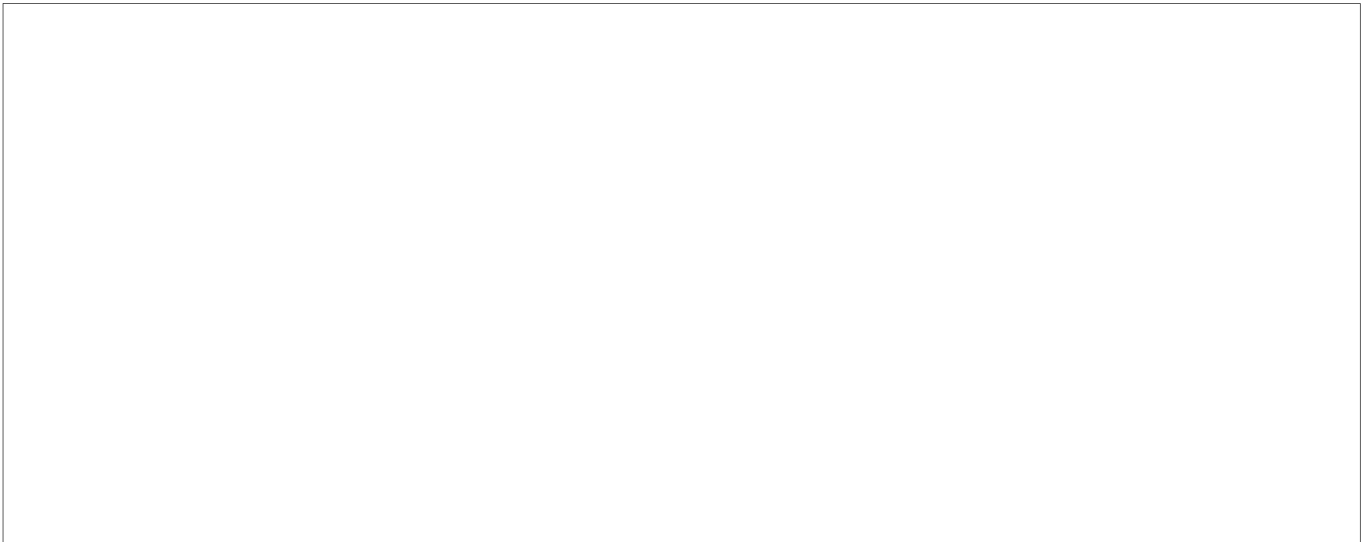


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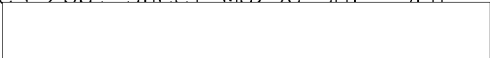

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REFERENCES



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Maps or Charts

 U.S. Air Target Chart, Series 200 Sheet M0290-3H1 3rd
Edition, Jul 65, Scale 1:200,000 (SECRET 


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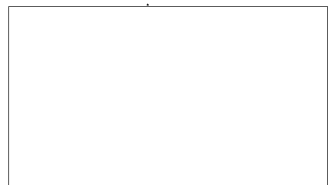
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Documents

CIA, PIR 75014, Chi-lin Nitrogen Fertilizer Plant, Chi-lin, China,
August 1966 (TOP SECRET RUFF)

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