

State of Idaho

Department of State

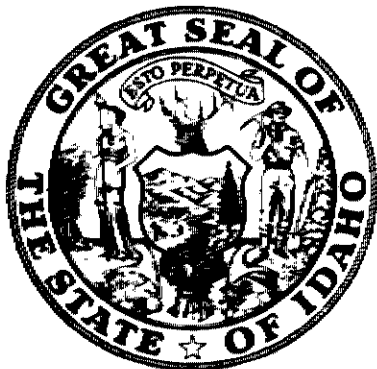
CERTIFICATE OF AUTHORITY OF

ETI EXPLOSIVES TECHNOLOGIES INTERNATIONAL INC.

I, PETE T. CENARRUSA, Secretary of State of the State of Idaho, hereby certify that duplicate originals of an Application of **ETI EXPLOSIVES TECHNOLOGIES INTERNATIONAL INC.** for a Certificate of Authority to transact business in this State, duly signed and verified pursuant to the provisions of the Idaho Business Corporation Act, have been received in this office and are found to conform to law.

ACCORDINGLY and by virtue of the authority vested in me by law, I issue this Certificate of Authority to **ETI EXPLOSIVES TECHNOLOGIES INTERNATIONAL INC.** to transact business in this State under the name **ETI EXPLOSIVES TECHNOLOGIES INTERNATIONAL INC.** and attach hereto a duplicate original of the Application for such Certificate.

Dated *November 6, 1987*



Pete T. Cenarrusa

SECRETARY OF STATE

[Signature]
Corporation Clerk

APPLICATION FOR CERTIFICATE OF AUTHORITY
 (Profit Corporation)

To the Secretary of State of Idaho
 Pursuant to Section 30-1-110, Idaho Code, the undersigned Corporation hereby applies for a Certificate of Authority to transact business in your State, and for that purpose submits the following statement:

The name of the corporation is ETI Explosives Technologies International Inc.

2. The name which it shall use in Idaho is ETI Explosives Technologies International Inc

(To be used only when required to avoid a conflict with a name already on file. Must be accompanied by a Board of Directors resolution adopting assumed name in Idaho.)

3. It is incorporated under the laws of Delaware

4. The date of its incorporation is June 25, 1987 and the period of its duration is perpetual

5. The address of its principal office in the state or country under the laws of which it is incorporated is The Prentice-Hall Corporation System, Inc., 229 South State St., Dover, DE 19901

6. The address to which correspondence should be addressed, if different from that in item 5.

7. The street address of its proposed registered office in Idaho is The Prentice-Hall Corporation System, Inc., One Capital Center, 999 Main St., Boise, Idaho 83702, and the name of its proposed registered agent in Idaho at that address is The Prentice-Hall Corporation System, Inc.

8. The purpose or purposes which it proposes to pursue in the transaction of business in Idaho are:

To engage in any lawful act or activity for which a corporation may be organized.

9. The names and respective addresses of its directors and officers are:

Name	Office	Address
<u>James A. Coutts</u>	<u>Chairman and</u>	<u>31 Lowther Avenue</u>
	<u>Secretary,</u>	<u>Toronto, Ontario</u>
	<u>Director</u>	<u>Canada M5R 1C5</u>
<u>Ernest E. Woodacre</u>	<u>President and</u>	<u>112 Bellant Circle</u>
	<u>Chief Executive</u>	<u>Wilmington, Delaware 19807</u>
	<u>Officer, Director</u>	

(continued on reverse)

Name	Office	Address
Daniel C. Casey	Director	141 Riverview Drive, Toronto, Ontario Canada M1N 3C6

- 10. The corporation accepts and shall comply with the provisions of the Constitution and the laws of the State of Idaho.
- 11. This Application is accompanied by a certificate of Corporate Status or Existence, duly authenticated by the proper officer of the state or country under the laws of which it is incorporated.

Dated: August 7, 1987

ETI Explosives Technologies International Inc.
(Corporation Name)

By Ernest E Woodcock
Its President/Vice President (please specify)

and James A. Courtis
Its Secretary/Assistant Secretary (please specify)

PROVINCE Ontario
STATE OF _____)
CITY Toronto) ss:
COUNTY OF Canada)

I, DOROTHY ELIZABETH DEMERCHANT, a notary public, do hereby certify that on this 7th day of August, 1987, personally appeared before me JAMES A. COURTIS, who being by me first duly sworn, declared that ~~she~~ is the Chairman & Secretary of ETI Explosives Technologies International Inc.

that ~~she~~ signed the foregoing document as Secretary of the corporation and that the statements therein contained are true.

Beth Demerchant
Notary Public

Nov 6 9 47 AM
OFFICE OF THE SECRETARY OF STATE

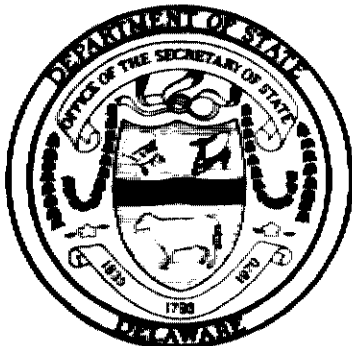
State of Delaware



Office of Secretary of State

I, MICHAEL HARKINS, SECRETARY OF STATE OF THE STATE OF DELAWARE DO HEREBY CERTIFY ETI EXPLOSIVES TECHNOLOGIES INTERNATIONAL INC. IS DULY INCORPORATED UNDER THE LAWS OF THE STATE OF DELAWARE AND IS IN GOOD STANDING AND HAS A LEGAL CORPORATE EXISTENCE SO FAR AS THE RECORDS OF THIS OFFICE SHOW, AS OF THE DATE SHOWN BELOW.

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Michael Harkins
Michael Harkins, Secretary of State

AUTHENTICATION: 11360272
DATE: 08/13/1987