## APPLICATION FOR NEW OR MODIFIED RADIO STATION AUTHORIZATION UNDER PART 5 OF FCC RULES - EXPERIMENTAL RADIO SERVICE (OTHER THAN BROADCAST)

| (Street addres<br>No. 4) Davi<br>Gene<br>3550   | ss, city, state,<br>d McLaren<br>ral Atomic   | s<br>tomics Court  | e instruction  | File No.   | X-PL-19                     | _   |  |
|---|---|--|--|--|-----------------------------|---|--|
| (a). Application  | for (check o  | nly one box)   |  | 2(b). For Modificat  | ion indicate belov          |   |  |
| X New station   |   | dification of existing                                   | authorization  | Bile Net   | (c.))                       | Clan  |  |
| Application fo  | r Modificatio   | n: Check the box<br>her the change i                     | x beside all par<br>s an addition of   | File No:<br>rticulars to be modif<br>or a replacement of                                   | fied. Check either          | Sign:<br>addition or re-<br>current authorization |  |
| FREQUENCY -   |   | EMISSION -   |  |  |                             |   |  |
| Particulars of<br>Frequency (state  | Operation (se   | e instruction bel<br>POWER                               | ow)  | EMISSION   | MODULATING                  | NECESSARY BANDWIDTH                               |  |
| (A)   | (B)   | (C)  | (D)  | (E)  | SIGNAL<br>(F)               | (KH2)<br>(G)                                      |  |
|   |   |  |  |  |                             |   |  |
|   |   |  |  |  |                             |   |  |
|   | See Exh   | ibit #1  |  |  |                             |   |  |
|   |   |  |  |  |                             |   |  |
|   |   |  |  |  |                             |   |  |
|   |   | <u></u>  |  |  |                             |   |  |
| <ul> <li>insert maximulation</li> <li>insert maximulation</li> <li>insert "MEA</li> <li>insert "MEA</li> <li>insert as applied</li> </ul> | mum R.F. outp<br>mum effectiv<br>N" or "PEAK"<br>pe of emissio<br>propriate for<br>imum speed o | out power at the<br>'e radiated powe<br>(See definitions | transmitter te<br>pr from the an<br>in Part 5).<br>each frequent<br>iulation:<br>is; | more space is requir<br>rminals. Specify un<br>tenna (if pulsed em<br>cy. (See Section 220 | its.<br>ission, specify pea |   |  |

|        | •          | XED/BA     |               |                         |            | BILE                             | ancenna (                 |                | only one box to indice<br>BASE AND MOBILE                 | the cype of operation |
|--------|------------|------------|---------------|-------------------------|------------|----------------------------------|---------------------------|----------------|---|-----------------------|
| 515    |            | nanently   | 7 located     | at a FIXE               | D locat    | ion, give l                      | elow:                     |                | 5(c). If mobile, descri                                   | be the exact area     |
| Stat   |            | County     |               | C                       | ity or '   | Town                             |                           |                | operation   |                       |
|        | CA         | San D      |               |                         | San D      |                                  |                           | <u> </u>       | 4   |                       |
| Nun    |            |            |               | indication              | of lo      | cation)                          |                           |                |   |                       |
|        | 3550 (     | General    | Atomic        | s Court                 |            |                                  |                           |                |   |                       |
| 5(b)(  | (1). Enter | geographic | al coordiante | exact to                | the near   | rest second (                    | see instruction           | n 10)          | 5(c)(1)Enter geographical c<br>center of mobile operation | •••                   |
| North  | n Latitude | (DD-MM-    | SS)           | West                    | Longitud   | e (DD-MM-S                       | S)                        |                | North Latitude  | West Longitude        |
| 32     | 2 0        | 54         | 14            | 1                       | 17 °       | 13                               | 69 "                      |                | 0,  | " 0 '                 |
| 5(11). | Datum      | (see ins   | truction 1    | 10):                    |            |                                  | NAD 27                    | X              | NAD 83  |                       |
|        |            |            |               | other than<br>ng inform |            | r) used?                         | YES                       | X              | NO  |                       |
|        |            |            |               |                         |            | -power poi                       |                           |                |   |                       |
| (      | (b) Orien  | tation 1   | n horizon     | tal plane               | - <u>-</u> | ·                                | (o)                       | Orient         | ation in vertical plane                                   | ·······               |
|        |            |            | ion to be     |                         | fulfill    | ing the re                       |                           |                | overnment contract v                                      | vith an agency of     |
|        |            | -          |               |                         |            | L_                               | YES                       |                | NO  |                       |
|        |            |            | act numb      |                         |            | , a nar.                         | Tauve Slau                | sment          | describing the govern                                     | iment project,        |
|        |            |            |               | ernment o               |            |                                  |                           |                | tion: Provide the contr                                   |                       |
|        |            |            |               |                         |            | ling comm<br>n projec <u>t).</u> |                           | essen          | tial to a research proje                                  | ect? (The radio com   |
| Y      | r "VES"    | ettenh e   | - FYHBr       | T No                    |            | a nam                            | YES<br>ative state        |                | NO<br>provding the following                              | a information         |
| (      | a) A des   | cription   | of the n      | ature of t              | he res     | earch proj                       | ect being o               | conduc         | ted.  | -                     |
|        |            |            |               |                         |            |                                  | quested ar<br>es are inad |                | ssary for the research<br>e.                              | project involved.     |
| 1      | n detail   | the foll   | owing:        |                         |            |                                  |                           |                | #2s narr  |                       |
|        | and t      | heory o    | l'operatio    | on.                     |            | i experime<br>complishe          | _                         | oposed         | i including description                                   | of equipment          |
|        | c) How     | the prog   | ram of e      | xperiment               | ation      | has a reas                       | onable pro                |                | of contribution to the c<br>ady investigated.             | levelopment, exten    |
| 11(a). |            |            |               |                         |            | that will h                      | e required                | to cor         | mplete the program of                                     | experimentation p     |
| (b)    | If less    | than 2 3   | vears, give   |                         | th of t    | time in mo                       |                           | the au         | thorization requested i                                   | in this application   |
| 12.    | Would      | a Comm     | ission gra    | ant of this             | appli      |                                  | e within S                | Section        | 1.1307 of the FCC Rule<br>YES X NO                        | s, such that it may   |
|        | If "YES    | ". attach  | as EX HIR     |                         |            | _                                |                           | luui<br>mentei | I Assessment as require                                   | ed by Section 1131    |
|        |            |            | CO 11534111   | BIT No                  |            | 8                                | n Environ.                |                |   |                       |

| will the proposed anter<br>yes X<br>9):<br>ntenna is<br>ve mean sea level is<br>a is<br>man-made structures (1) | nna be mounted on an ex<br>NO<br>_ meters.  | kilometers.  |
|---|---|--|
| ntenna is<br>ve mean sea level is<br>a is<br>man-made structures (1   | meters.<br>   |  |
| a is man-made structures (1   | hills, trees, water tanks, t  |  |
| man-made structures (1  | hills, trees, water tanks, t  |  |
|   |   |  |
|   |   |  |
| ground for all significa:   | nt features. Clearly indic  |  |
| ······································  |   |  |
| D PARTNERSHIP   | CORPORATION   | ł  |
| ow)   |   |  |
| on had any FCC station  | license or permit revok   | YES NO   |
|   |   | TYES X NO  |
| ne station?   |   | X YES NO   |
| o this application.   |   | -  |
| ·····   |   |  |
| certifies that he or she<br>ral benefits, including F<br>Anti- Drug Abuse Act of<br>corporated association, c   | FCC benefits, as a result of<br>f 1988, 21 U.S.C. 862. A non<br>certifies that no party to  | of a drug offense<br>- Individual applicant,<br>the application is   |
| ce and the item number  | r of form requiring the   | exhibit identified.  |
| ITEM ND. OF FORM  | A EXHIBIT NUMBER  | ITEM NO. OF FORM   |
| ·····   |   |  |
|   |   |  |
|   |   | <b>-</b>   |
|   |   | CC Form 442 - Page 4   |
|   | presentative of a foreig<br>on had any FCC station<br>denied by this Commiss<br>, a statement giving of<br>the station?<br>clude area code), and In<br>to this application.<br>clude area code), and In<br>to this application.<br>certifies that he or sh<br>ral benefits, including J<br>Anti- Drug Abuse Act of<br>corporated association, co<br>suant to that section. For<br>ce and the item numbe | ow)  resentative of a foreign government?  on had any FCC station license or permit revoke denied by this Commission?, a statement giving call sign of license or per  ne station?  clude area code), and Internet e-mail address (if to this application.  cientist, (619) 455-3630, Tsunoda@gat.  N:  certifies that he or she is eligible for this licen ral benefits, including FCC benefits, as a result of Anti- Drug Abuse Act of 1988, 21 USC. 862. A non supervised association, certifies that no party to suant to that section. For definition of a "party"  ce and the item number of form requiring the elignment  statement of the item number of form requiring the elignment  including FCC benefits in the elignment  ce and the item number of form requiring the elignment  including the elignment  ce and the item number of form requiring the elignment  including the elig |

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## 23 CERTIFICATION:

Attention: Read this certification carefully before signing this application.

## THE APPLICANT CERTIFIES THAT:

- (a) Copies of FCC Rule Parts 2 and 5 are on hand; and
- (b) Adequate financial appropriations have been made to carry on the program of experimentation which will be conducted by qualified personnel; and
- (c) All operations will be on an experimental basis in accordance with Part 5 and other applicable rules, and will be conducted in such a manner and at such a time as to preclude harmful interference to any authorized station; and
- (d) Grant of the authorization requested herein will not be construed as a finding on the part of the Commission:
  - (i) that the frequencies and other technical parameters specified in the authorization are the best suited for the proposed program of experimentation, and
  - (2) that the applicant will be authorized to operate on any basis other than experimental, and
  - (3) that the Commission is obligated by the results of the experimental program to make provision in its rules including its table of frequency allocations for applicant's type of operation on a regularly licensed basis.

APPLICANT CERTIFIES FURTHER THAT:

- (e) All the statements in the application and attached exhibits are true, complete and correct to the best of the applicant's knowledge; and
- (f) The applicant is willing to finance and conduct the experimental program with full knowledge and understanding of the above limitations; and
- (g) The applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the USA.

| Signed   | and dated this       |             | Aday of  | 10 198 |
|----------|----------------------|-------------|--|--------|
| Name     | of Applicant         | <u>Davi</u> | 1 McLaren ////////////                         |        |
| Ву       | D.R.M                | <u>e</u> L, | Inust correspond with name given on page 1)    | n      |
|          |                      | -inti       | (signature)                                    |        |
| Title _  | Manager, Tel         | ecom        | nunications                                    |        |
| Check ap | propriate classifica | tion:       |  |        |
| Indiv    | vidual applicant     |             | Member of applicant partnership                |        |
| X Auth   | orized employee      |             | Office of applicant corporation or association |        |

VILLEFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. Code, Title '13 Section 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. Code, Title 47, Section 312(a)1), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).

NOTIFICATION TO INDIVIDUALS UNDER PRIVACY ACT OF 1974 AND THE PAPERWORK REDUCTION ACT OF 1980

Information requested through this form is authorized by the Communications Act of 1934, as amended, and specified by Section 308 therein. The information will be used by Federal Communications Commission staff to determine eligibility for issuing authorizations in the use of the frequency spectrum and to effect the provisions of regulatory responsibilities rendered by the Commission by the Act. Information requested by this form will be available to the public unless otherwise requested pursuant to 47 CFR 0.459 of the FCC Rules and Regulations. Your response is required to obtain this authorization.

Public reporting burden for this collection of information is estimated to average four (4) hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to the Federal Communications Commission, Records Management Branch, Paperwork Reduction Project (3060-0065), Washington, DC 20554. **DO NOT send completed applications to this** and dress. Individuals are not required to respond to this collection unless it displays a currently valid OMB control number.

THE FOREGOING NOTICE IS REQUIRED BY THE PRIVACY ACT OF 1974, PL 98-579, DECEMBER 81, 1974, 5 U.S.C. 5528(0)(8), AND THE PAPERWORK REDUCTION ACT OF 1980, PL 96-511, DECEMBER 11, 1980, 44 U.S.C. 3507. Approved by OMB

FEDERAL COMMUNICATIONS COMMISSION

FOR FCC

USE ONLY

## 3060-0065 Ekpires 9/30/98

FCC FORM 442

| APPLICATION FOR NE | W OR MODIFIED F | RADIO STATION | AUTHORIZATIO | N UNDER PART 5 |
|--------------------|-----------------|---------------|--------------|----------------|
| OF FCC RULES       | - EXPERIMENTAL  | RADIO SERVICE | OTHER THAN   | BROADCAST)     |

| SECTION I              |                                |                                   |  |
|------------------------|--------------------------------|-----------------------------------|--|
| APPLICANT NAME (Last,  |                                |                                   |  |
| McLaren, Dav           | id                             |                                   |  |
| MAILING ADDRESS (Line  | 1) (Maximum 85 characters - :  | refer to Instruction (2) or       | n reverse of form)                       |
| General Atom           | <u>ics</u>                     |                                   |  |
| MAILING ADDRESS (Line  | 2) (if required) (Maximum 35   | characters)                       |  |
| <u>3550 Genera</u>     | <u> 1 Atomics Court</u>        |                                   |  |
| CITY                   |                                |                                   |  |
| San Diego              |                                |                                   |  |
| STATE OR COUNTRY (if f | oreign address)                |                                   | CALL SIGN OR FILE NUMBER                 |
| California             | rrent Eee Tune Code for the se | 92121-1194                        | Fee Type Codes may be found in FCC       |
|                        |                                |                                   | (C) the result obtained from multiplying |
|                        | Code in Column (A) by the numb |                                   | If any.                                  |
| (A)                    |                                | (C)<br>FEE DUE FOR FEE            | TYPE                                     |
| 1) FEE TYPE CODE       | (if required)                  | CODE IN COLUM                     |  |
| EAE                    |                                | \$ 45.00                          |  |
|                        |                                | + 45.00                           |  |
|                        |                                |                                   |  |
| SECTION I              | - /                            |                                   | irrent actions which result in a         |
|                        | requirement to list ma         | ore than one Fee Type Cod         | le                                       |
| (A)                    | (B)                            | (C)                               | FOR FCC USE ONLY                         |
| FEE TYPE CODE          | FEE MULTIPLE<br>(If required)  | FEE DUE FOR FEE<br>CODE IN COLUMN | TYPE                                     |
|                        |                                |                                   |  |
|                        |                                | <b></b>                           |  |
| 2)                     |                                | \$                                |  |
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| 3)                     |                                |                                   |  |
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| 4)                     |                                |                                   |  |
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| E)                     |                                |                                   |  |
| 5)                     |                                | \$                                |  |
|                        | IN IN COLUMN C, LINES (1)      |                                   |  |
| THROUGH (5), AND ENTER |                                | TOTAL AMOUNT REM                  | ΠΕ                                       |
| HIS AMOUNT SHOULD EC   |                                | WITH THIS APPLICA                 | TION FOR FCC USE ONLY                    |
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|                        |                                | \$ 45.00                          |  |

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March 1996