

FILED/ACCEPTED

JAN 10 2012

Federal Communications Commission  
Office of the Secretary

# MERIDIAN



## SURVEYING, LLC

N8774 Firelane 1, Menasha, WI 54952 www.meridian-wi.com Phone: (920) 993-0881 Fax: (920) 273-6037

January 5, 2012

Marlene H. Dortch, Secretary  
Federal Communications Commission  
445 12<sup>th</sup> St. SW  
Washington, DC 20554

Re: Light Squared Subsidiary, LLC  
Ex Parte Communication. IB Docket No. 11-109  
IBSF File No. SAT-MOD-20101118-00239

Ms. Secretary,

I am sure you are aware of the proposals of Light Squared to implement a GPS based communications network; you probably have even received many letters similar to the one in which I am writing. Being a small business owner in Wisconsin that relies on the GPS industry to conduct a majority of work, I animatedly **oppose** the Light Squared proposal.

It has come to my attention that independent studies have shown that the GPS band Light Squared proposes to use will interfere with the high precision equipment that we as surveyors use. Not only will this render the equipment we have spent a small fortune on useless, it will drive up cost for us to do business (a cost that doesn't need to occur in such hard economic times). It is also important to note the importance of data that surveyors produce is used by hundreds of thousands of people (highway design, seismic testing, air traffic control, private boundaries, etc....). I know it is often the case that the "Golden Rule" (whoever has the most gold makes the rules) governs in Washington (to be oblivious to that notion would be naive), and if that is truly the case the small business owner like myself will always lose to large companies such as Light Squared. It is my hope that the FCC will take into consideration the detrimental consequences to our industry that will take place if Light Squared is allowed to go forward without proving that it and high precision GPS devices can co-exist.

Thank You,

Steven C De Jong

RLS. CFedS

Meridian Surveying, LLC

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**From:** myIBFS  
**Sent:** Thursday, January 05, 2012 9:28 AM  
**To:** Gerald Mays; Sarita Kale; Siva Appavu; Andrea Kelly; Stephen Duall; Kathryn Medley; CurTrisha Banks; Kathleen Campbell  
**Subject:** Pleadings and Comments Notification from MyIBFS

Type of Pleading: LETTER

Date filed: 01/05/2012

Filer Information:  
Steven C De Jong  
~~Meridian Surveying~~, LLC

Contact Information:

Proceedings List

File Number	Callsign	Applicant
SATMOD2010111800239	S2358	LightSquared Subsidiary LLC

Marlene H. Dortch, Secretary  
Federal Communications Commission  
445 12<sup>th</sup> St. SW  
Washington, DC 20554

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JAN 10 2012

Federal Communications Commission  
Office of the Secretary

Re: LightSquared Subsidiary, LLC  
Ex Parte Communication. IB Docket No. 11-109  
IBSF File No. SAT-MOD-20101118-00239

Good Morning Ms Dortch

I am writing to state that until LightSquared can prove that it does not interfere with GPS enabled Enhanced Ground Proximity Warning Systems of aircraft as well as other high precision GPS equipment:

**I am opposed to LightSquared's request to affirm its license to go forward with its plans.**

I do not oppose the company, I just want to be certain that their technology does not compromise existing GPS systems that are critical to our National Defense as well as to how we conduct ourselves in our day to day lives.

Sincerely  
Dave Cooper  
Columbus Georgia, 31901

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**From:** myIBFS  
**Sent:** Thursday, January 05, 2012 8:32 AM  
**To:** Gerald Mays; Sarita Kale; Siva Appavu; Andrea Kelly; Stephen Duall; Kathryn Medley; CurTrisha Banks; Kathleen Campbell  
**Subject:** Pleadings and Comments Notification from MyIBFS

Type of Pleading: LETTER

Date filed: 01/05/2012

Filer Information:  
David B. Cooper  
~~Columbus Consolidated~~ Government, Engineering Dept, GIS Division

Contact Information:

Proceedings List

File Number	Callsign	Applicant
SATMOD2010111800239	S2358	LightSquared Subsidiary LLC

Marlene H. Dortch, Secretary  
Federal Communications Commission  
445 12<sup>th</sup> St. SW  
Washington, DC 20554

Jan. 1<sup>st</sup>, 2012

Re: LightSquared Subsidiary, LLC  
Ex Parte Communication. IB Docket No. 11-109  
IBSF File No. SAT-MOD-20101118-00239

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JAN 10 2012

Federal Communications Commission  
Office of the Secretary

Dear Marlene H Dortch and to all this may concern,

I am a land surveyor working in the Northern Plains. I am a daily user of high-precision GPS for surveying. It is my very strong opinion as it is to many others that LightSquared should not be allowed to go forward until it is shown that their plan and signal will not interfere with high-precision GPS. Not only will the surveying industry be harmed, but so will the hundreds of thousands of people who use the data surveyors produce. The recent independent testing showed significant interference with the signals we already use. I want to let you know that I oppose LightSquared's request to affirm its license and its request to go forward with its plan. Thank you for allowing me to voice an opinion in the matter.

Sincerely,

Dave Nelson  
Basin Electric Power Cooperative  
1717 E Interstate Ave  
Bismarck, ND 58503

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**From:** myIBFS  
**Sent:** Thursday, January 05, 2012 8:36 AM  
**To:** Gerald Mays; Sarita Kale; Siva Appavu; Andrea Kelly; Stephen Duall; Kathryn Medley; CurTrisha Banks; Kathleen Campbell  
**Subject:** Pleadings and Comments Notification from MyIBFS

Type of Pleading: LETTER

Date filed: 01/05/2012

Filer Information:  
David Nelson  
Basin Electric Power Cooperative

Contact Information:

Proceedings List

File Number	Callsign	Applicant
SATMOD2010111800239	S2358	LightSquared Subsidiary LLC

Marlene H. Dortch, Secretary  
Federal Communications Commission  
445 12<sup>th</sup> St. SW  
Washington, DC 20554

January 5, 2012

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JAN 10 2012

Federal Communications Commission  
Office of the Secretary

Re: LightSquared Subsidiary, LLC  
Ex Parte Communication. IB Docket No. 11-109  
IBSF File No. SAT-MOD-20101118-00239

Ms Dortch:

LightSquared should not be allowed to go forward until it is shown that their plan will not interfere with high-precision GPS or unjustly cause GPS user to buy new equipment.. Not only the surveying industry will be harmed, but so will the hundreds of thousands of people who use the data surveyors produce. As a user of high-precision GPS, I **oppose** LightSquared's request (which ignores the recent independent test results) to affirm its license and its request to go forward with its plan.

Thank you for your consideration in this matter.

Kevin Redelman, S.I.T.

JDJ Surveying & Engineering, LLC

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**From:** myIBFS  
**Sent:** Thursday, January 05, 2012 10:13 AM  
**To:** Gerald Mays; Sarita Kale; Siva Appavu; Andrea Kelly; Stephen Duall; Kathryn Medley; CurTrisha Banks; Kathleen Campbell  
**Subject:** Pleadings and Comments Notification from MyIBFS

Type of Pleading: LETTER

Date filed: 01/05/2012

Filer Information:  
Kevin Redelman  
JDJ Surveying & Engineering LLC

Contact Information:

\*  
Proceedings List

File Number	Callsign	Applicant
SATMOD2010111800239	S2358	LightSquared Subsidiary LLC



January 5, 2012

Marlene H. Dortch, Secretary  
Federal Communications Commission  
445 12th St. SW  
Washington, DC 20554

**FILED/ACCEPTED**

**JAN 10 2012**  
Federal Communications Commission  
Office of the Secretary

Re: LightSquared Subsidiary, LLC  
Ex Parte Communication. IB Docket No. **11-109** IBSF File No. SAT-MOD-20101118-00239

Dear Madam Secretary:

It has been brought to my attention that LightSquared is still pressuring the FCC to grant them the go ahead with their project, after it had be proven that their system will interfere with most GPS systems. If the FCC were to grant LightSquared that right its difficult to visualize just how much damage may be done to our overall economy considering the far reaching effects that GPS currently has on most everything.

As a user of high precision GPS systems, my business depends completely on its availability at all times to be competitive with similar businesses and to stay financially solvent in this business. Please, don't take your decisions lightly, as they will affect all of the this country's well being.

**Do not approve LightSquared request**

Respectfully yours  
Finley Porterfield

**Finley  
D  
Porter  
field**  
Digitally signed by  
Finley D Porterfield  
DN: cn=Finley D  
Porterfield,  
o=Porterfield  
Surveying, Inc., ou,  
email=finley@rp-  
us.com, c=US  
Date: 2012.01.05  
08:50:12 -06'00'

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**From:** myIBFS  
**Sent:** Thursday, January 05, 2012 9:55 AM  
**To:** Gerald Mays; Sarita Kale; Siva Appavu; Andrea Kelly; Stephen Duall; Kathryn Medley; CurTrisha Banks; Kathleen Campbell  
**Subject:** Pleadings and Comments Notification from MyIBFS

Type of Pleading: LETTER

Date filed: 01/05/2012

Filer Information:  
FINLEY PORTERFIELD  
PORTERFIELD SURVEYING, INC.

Contact Information:

Proceedings List

File Number	Callsign	Applicant
SATMOD2010111800239	S2358	LightSquared Subsidiary LLC

**Georgia Land Surveying Co., Inc.**

155 Cliftwood Drive  
Atlanta, Georgia 30328  
(404) 255-4671  
(404) 255-6607 fax  
[info@glsurvey.com](mailto:info@glsurvey.com)

FILED/ACCEPTED

JAN 10 2012

Federal Communications Commission  
Office of the Secretary

January 5, 2012

Marlene H. Dortch, Secretary  
Federal Communications Commission  
445 12<sup>th</sup> Street SW  
Washington, DC 20554

Re: LightSquared Subsidiary, LLC  
Ex Parte Communication. IB Docket No. 11-109  
IBSF File No. SAT-MOD-20101118-00239

Dear Ms. Dortch,

I am writing on behalf of myself and other surveyors in my state to express our concern with LightSquared's proposed "solution" to the harm its wireless broadband initiative would do to the national GPS. We have serious misgivings about the FCC granting LightSquared conditional approval (FCC File No. SAT-MOD-20101118-00239) to push forward with their initiative to build a nationwide 4G-LTE wireless broadband network. According to LightSquared's own report, most High Precision GPS devices would be rendered useless by LightSquared's actions. These are the very devices that surveyors around the country use everyday.

The Department of Defense, FAA, DHS, NASA, DOI, DOT, DOC, and the Professional Land Surveying and Engineering professions, have all expressed serious reservations in regards to this plan by LightSquared LLC company to build 40,000 ground stations in the U.S. that could cause widespread interference to GPS signals. This network of ground stations will transmit signals within the L-band frequency immediately adjacent to the GPS L1 frequency at more than one billion times the strength of the low-power GPS signal from space. Furthermore, each mobile phone using LightSquared's wireless service would potentially become a portable GPS jamming device by jamming GPS receivers in its immediate vicinity.

As you may know, a Technical Working Group (TWG) comprised of LightSquared representatives and GPS industry experts conducted several tests on the effect that LightSquared's signals will have on high precision GPS devices. The tests conclude that: (1) the LightSquared Base Station 4G LTE signals harmfully interfere with High Precision GPS receivers over long ranges; (2) the LightSquared Base Station signals cause harmful co-channel interferences with the FCC licensed StarFire and OmniSTAR augmentation systems; (3) LightSquared handsets, when operating close to a GPS receiver, harmfully interfere with it; (4) current GPS receivers using other GNSS constellations and augmentations systems with signals in the GPS L1 band will suffer harmful interference from the LightSquared signals for the same reason as do the GPS signals; (5) in the lower 10 MHz channel

configuration, 31 of 33 High Precision and Network GPS receivers tested experienced harmful interference within the range of power levels that would be seen inside the network. High Precision receivers would experience harmful interference at up to 5 km (3± miles) from a single LightSquared base station.

We know of nothing feasible that can be done to make the high precision GPS receivers that surveying and mapping professionals use work properly when in the vicinity of a LightSquared base station. Additionally, we know of no currently available receiver, filter, antenna or other mitigation technology that would enable the construction of future High Precision GPS receivers and augmentation systems that are compatible with LightSquared's rollout plans. Finally, we believe that the most straightforward mitigation would be for LightSquared to use a different frequency band for their terrestrial network.

High-precision GPS equipment used by land surveyors, civil engineers, farmers, and other geomatic professionals costing thousands of dollars per receiver would be more adversely affected than the consumer GPS devices given their inherent design. Literally, tens of thousands of high-precision GPS receivers are used in the United States. GPS technology has transformed the way Americans have built and managed our infrastructure, adding a tremendous level of efficiency to the design, construction, and maintenance of roads, bridges, commercial properties, residential subdivisions, parks, farms, golf courses, etc. Across the country, High Precision GPS has become an essential tool for most land surveyors and geomatic professionals today and it is imperative that these GPS signals are not jeopardized by broadband technology. The FCC must make clear, and the NTIA (National Telecommunications and Information Administration) must ensure, that LightSquared's license modification is contingent on a finding of no interference by LightSquared's signals on High Precision GPS usage. The findings of no interference must contain a high degree of certainty, because public welfare and safety depends on accurate systems. It will be too late to worry about fixing the problem when LightSquared's system is already up and running.

Thank you for your concern and attention to this very important matter.

Best Regards,

Josh L. Lewis III  
RLS 1751

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**From:** myIBFS  
**Sent:** Thursday, January 05, 2012 9:57 AM  
**To:** Gerald Mays; Sarita Kale; Siva Appavu; Andrea Kelly; Stephen Duall; Kathryn Medley; CurTrisha Banks; Kathleen Campbell  
**Subject:** Pleadings and Comments Notification from MyIBFS

Type of Pleading: LETTER

Date filed: 01/05/2012

Filer Information:  
Josh L. Lewis III  
Georgia Land Surveying Co. Inc.

Contact Information:

Proceedings List

File Number	Callsign	Applicant
SATMOD2010111800239	S2358	LightSquared Subsidiary LLC

1B Docket 11-109

LightSquared should not be allowed to go forward until it is shown that their plan will not interfere with high-precision GPS. Not only will the surveying industry will be harmed, but so will the hundreds of thousands of people who use the data surveyors produce. As a user of high-precision GPS. I oppose LightSquared's request (which ignores the recent independent test results) to affirm its license and its request to go forward with its plan.

Ross M. Knodl, RLS

Registered Land Surveyor S-2410

State of Wisconsin

FILED/ACCEPTED

JAN 10 2012

Federal Communications Commission  
Office of the Secretary

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**From:** myIBFS  
**Sent:** Wednesday, January 04, 2012 3:34 PM  
**To:** Gerald Mays; Sarita Kale; Siva Appavu; Andrea Kelly; Stephen Dual; Kathryn Medley; CurTrisha Banks; Kathleen Campbell  
**Subject:** Pleadings and Comments Notification from MyIBFS

Type of Pleading: LETTER

Date filed: 01/04/2012

Filer Information:  
Ross Knodl  
R.A. Smith national Inc.

Contact Information:

Proceedings List

File Number	Callsign	Applicant
SATMOD2010111800239	S2358	LightSquared Subsidiary LLC



# Vince Dowdle & Associates LLC

157 Fairplay Road  
Bloomington, Ohio 43910  
Ph: 740-944-1943 Fax: 740-944-1195

Marlene H. Dortch, Secretary  
Federal Communications Commission  
445 12th St. SW  
Washington, DC 20554

FILED/ACCEPTED

JAN 10 2012

Federal Communications Commission  
Office of the Secretary

Re: LightSquared Subsidiary, LLC  
Ex Parte Communication. IB Docket No. 11-109  
IBSF File No. SAT-MOD-20101118-00239

As a user of high-precision GPS, I oppose LightSquared's request (which ignores the recent independent test results) to affirm its license and its request to go forward with its plan. I believe the FCC has a duty to regulate the industry for the benefit of the many, NOT for the benefit of the few, and right now, many will be harmed by the very actions taken by the FCC if LightSquared is permitted to proceed. Please consider the needs of the many in this case and do not allow LightSquared to cripple what many professionals and their many clients depend upon. I, and many other professionals have spent thousands upon thousands of dollars for our equipment, and with the strike of a pen you could render them useless, and set the industry back 40 years. This action could drive costs for work that is performed now, relatively in-expensively, to be either impossible to complete or too expensive to complete.

Yours truly

Vince Dowdle P.S.

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**From:** myIBFS  
**Sent:** Wednesday, January 04, 2012 3:45 PM  
**To:** Gerald Mays; Sarita Kale; Siva Appavu; Andrea Kelly; Stephen Dual; Kathryn Medley; CurTrisha Banks; Kathleen Campbell  
**Subject:** Pleadings and Comments Notification from MyIBFS

Type of Pleading: LETTER

Date filed: 01/04/2012

Filer Information:  
Vince Dowdle  
Vince Dowdle & Associate LLC

Contact Information:

Proceedings List

File Number	Callsign	Applicant
SATMOD2010111800239	S2358	LightSquared Subsidiary LLC

January 4, 2012

Marlene H. Dortch, Secretary  
Federal Communications Commission  
445 12th St. SW  
Washington, DC 20554

FILED/ACCEPTED

JAN 10 2012

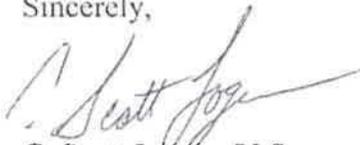
Federal Communications Commission  
Office of the Secretary

Re: LightSquared Subsidiary, LLC  
Ex Parte Communication. IB Docket No. 11-109  
IBSF File No. SAT-MOD-20101118-00239

Ms. Dortch,

This letter is to state my opposition to Lightsquared's request to affirm its license and go forward with its planned deployment. Independent test results have shown substantial interference with precision GPS equipment causing it to be inoperable in the presence of Lightsquared signals. As a user of high precision GPS on a daily basis, this will cause delays and increased costs to my clients and in some cases make it impossible to perform our work without significant financial impact.

Sincerely,



C. Scott Logue, PLS  
Vice President  
The Survey Company, Inc.  
4105-B Stuart Andrew Blvd  
Charlotte, NC 28217

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**From:** myIBFS  
**Sent:** Wednesday, January 04, 2012 3:48 PM  
**To:** Gerald Mays; Sarita Kale; Siva Appavu; Andrea Kelly; Stephen Dual; Kathryn Medley; CurTrisha Banks; Kathleen Campbell  
**Subject:** Pleadings and Comments Notification from MyIBFS

Type of Pleading: LETTER

Date filed: 01/04/2012

Filer Information:  
Charles S. Logue  
The Survey Company, Inc.

Contact Information:

Proceedings List

File Number	Callsign	Applicant
SATMOD2010111800239	S2358	LightSquared Subsidiary LLC

To:

Marlene H. Dortch, Secretary

Federal Communications Commission

445 12<sup>th</sup> St. SW

Washington, DC 20554

FILED/ACCEPTED

JAN 10 2012

Federal Communications Commission  
Office of the Secretary

Re: LightSquared Subsidiary, LLC

Ex Parte Communication. IB Docket No. [REDACTED]

109

IBSF File No. SAT-MOD-20101118-00239

I am greatly concerned with LightSquared's signal interference with GPS reception and urge you not to affirm its license and allow it to begin work until it can be proven it does not interfere with GPS reception.

Norman Stephens

1911 Central Avenue

Indianapolis, Indiana 46202

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**From:** myIBFS  
**Sent:** Thursday, January 05, 2012 7:52 AM  
**To:** Gerald Mays; Sarita Kale; Siva Appavu; Andrea Kelly; Stephen Duall; Kathryn Medley; CurTrisha Banks; Kathleen Campbell  
**Subject:** Pleadings and Comments Notification from MyIBFS

Type of Pleading: LETTER

Date filed: 01/05/2012

Filer Information:  
Norman Stephens  
NRCS

Contact Information:

Proceedings List

File Number	Callsign	Applicant
SATMOD2010111800239	S2358	LightSquared Subsidiary LLC

January 5, 2012

Marlene H. Dortch, Secretary  
Federal Communications Commission  
445 12<sup>th</sup> Street SW  
Washington, DC 20554

FILED/ACCEPTED  
JAN 10 2012  
Federal Communications Commission  
Office of the Secretary

Re: LightSquared Subsidiary, LLC  
Ex Parte Communication. IB Docket No. 11-109  
IBSF File No. SAT-MOD-20101118-00239

Dear Ms. Dortch:

I am writing to you to express my opposition to LightSquared's request to the FCC to affirm their license and their request to move forward with their plan.

LightSquared's plan would cause serious harm to millions of GPS users across the United States including the engineering and land surveying industry. LightSquared has made this request in spite of recent independent test results which show that their signals would destroy the accuracy and integrity of GPS instruments used by civilians and the military regardless of any mitigating steps LightSquared claims they may take.

I ask that the Federal Communications Commission deny this request and reject any plan by LightSquared to implement their system in the United States.

Sincerely,



James E. Kovas PE, PS

9330 Gale Road  
Goodrich, Michigan 48438

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**From:** myIBFS  
**Sent:** Thursday, January 05, 2012 11:21 AM  
**To:** Gerald Mays; Sarita Kale; Siva Appavu; Andrea Kelly; Stephen Duall; Kathryn Medley;  
CurTrisha Banks; Kathleen Campbell  
**Subject:** Pleadings and Comments Notification from MyIBFS

Type of Pleading: LETTER

Date filed: 01/05/2012

Filer Information:  
James E. Kovas  
Wade Trim, Inc.

Contact Information:

Proceedings List

File Number	Callsign	Applicant
SATMOD2010111800239	S2358	LightSquared Subsidiary LLC



January 5, 2012

**Marlene H. Dortch, Secretary**  
**Federal Communications Commission**  
**445 12<sup>th</sup> St. SW**  
**Washington, DC 20554**

FILED/ACCEPTED

JAN 10 2012

Federal Communications Commission  
Office of the Secretary

**Re: LightSquared Subsidiary, LLC**  
**Ex Parte Communication. IB Docket No. 11-109**  
**IBSF File No. SAT-MOD-20101118-00239**

Dear Ms. Dortch,

It has recently come to my attention that LightSquared recently petitioned the FCC to affirm its license and allow it to begin work, even though independent tests showed that interference with high-precision GPS will occur if LightSquared goes forward with its plan.

As a Professional Land Surveyor, who depends daily on high-precision GPS, I strongly oppose LightSquared's request (which ignores the recent independent test results) to affirm its license and its request to go forward with its plan.

Sincerely,  
**SUMMIT ENGINEERING CORPORATION**

Bob Thibault, P.L.S.  
Elko Survey Manager

J:\WPDATA\BOB\Light Squared request doc

1150 Lamaille Highway • Elko, Nevada 89801 • (775) 738-8058 FAX (775) 738-8267  
5405 Mae Anne Avenue • Reno, Nevada 89523 • (775) 747-8550 FAX (775) 747-8559

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**From:** myIBFS  
**Sent:** Thursday, January 05, 2012 11:19 AM  
**To:** Gerald Mays; Sarita Kale; Siva Appavu; Andrea Kelly; Stephen Duall; Kathryn Medley; CurTrisha Banks; Kathleen Campbell  
**Subject:** Pleadings and Comments Notification from MyIBFS

Type of Pleading: LETTER

Date filed: 01/05/2012

Filer Information:  
Robert Thibault  
Summit Engineering Corporation

Contact Information:

Proceedings List

File Number	Callsign	Applicant
SATMOD2010111800239	S2358	LightSquared Subsidiary LLC