

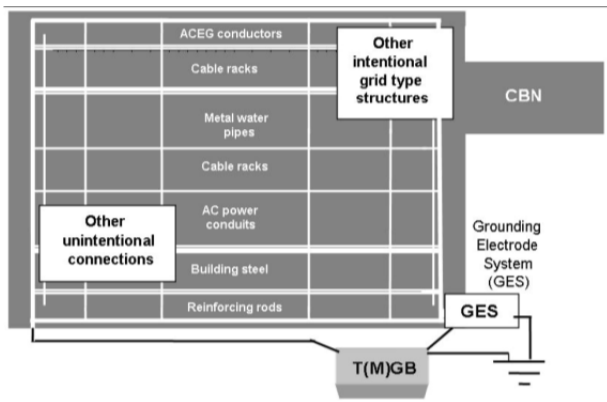
# IEEE Emerald Book 1100 Std 2005 SPGS Credits

In the 1100™ 2005 IEEE Recommended Practice for Powering and Grounding Electronic Equipment an SPGS employee was the chair person for *Chapter 9 Telecommunications, information technology, and distributed computing*. This project took over eighteen months to complete. SPGS spent many trips, donated expenses, hours and countless edits to complete Chapter 9. SPGS contributed many drawings and changes for Chapter 9; however SPGS only asked for the fifteen credits that IEEE placed in the final version.

These credits appear on page iii, page 371, page 392, page 393, page 396, page 397, page 398, page 400, page 401, page 410 and page 489.

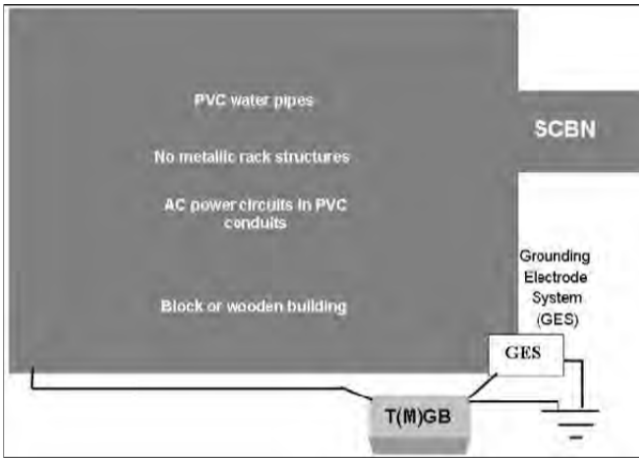
SPGS was given credit by IEEE in the final revision for the following drawings.

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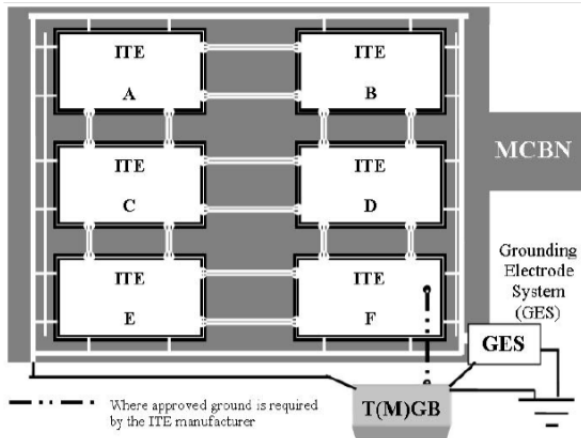
Courtesy of SPGS, Inc.

**Figure 9-36—The CBN connected to the T(M)GB that connects to the GES**



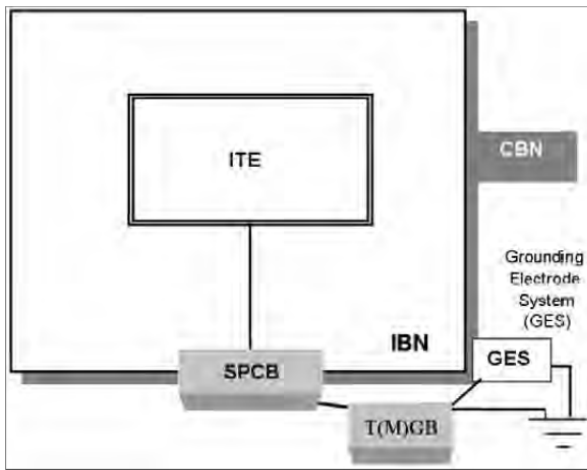
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**Figure 9-37—SCBN—worst case**



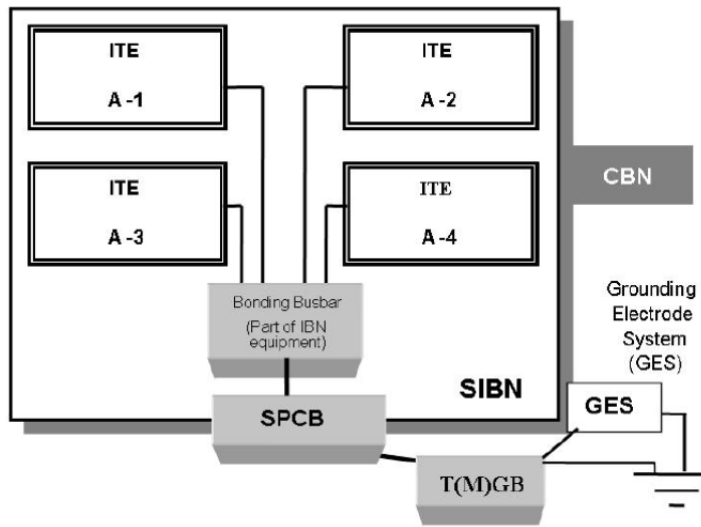
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**Figure 9-49—MCBN**



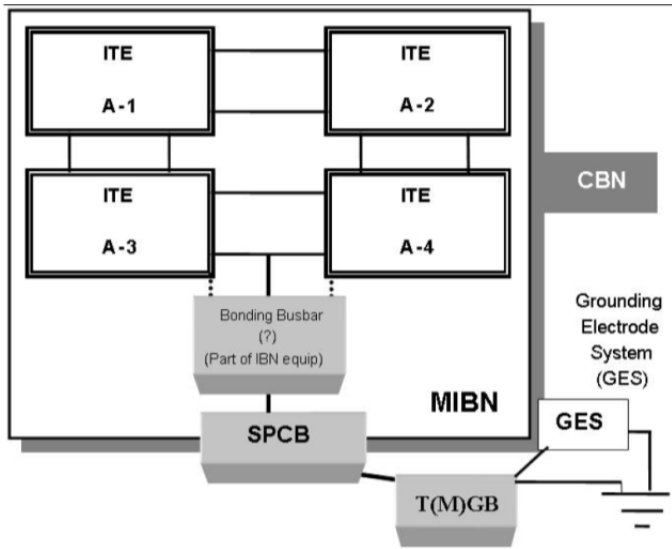
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**Figure 9-50—IBN**



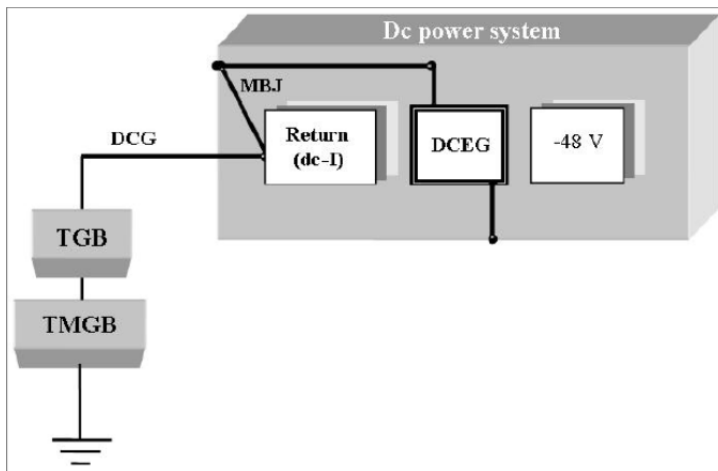
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**Figure 9-51—SIBN**



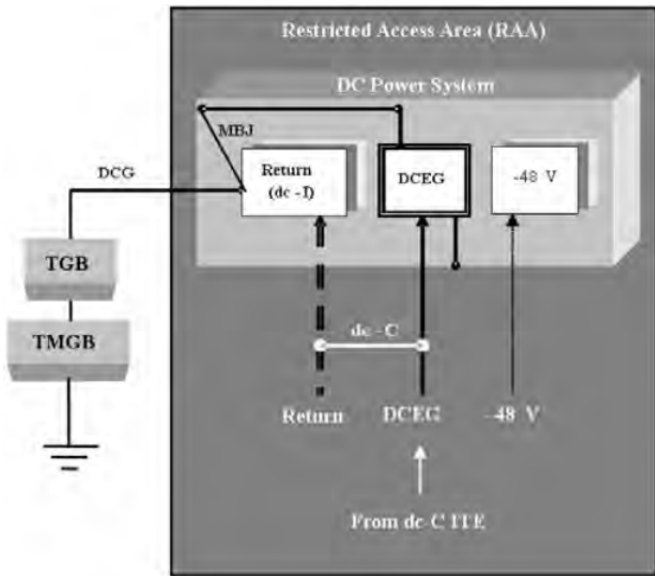
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**Figure 9-52—MIBN**



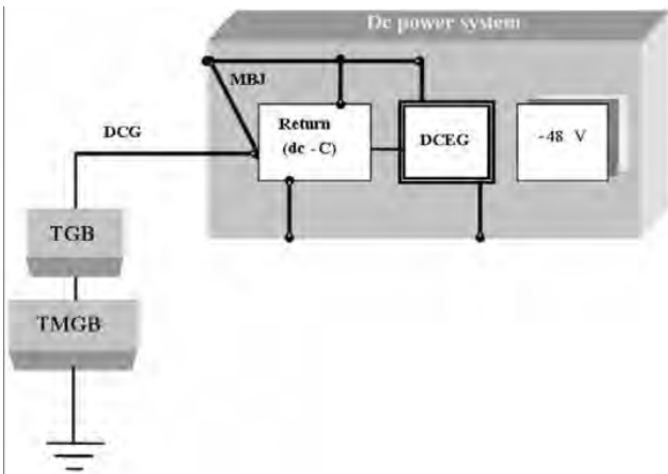
Courtesy of SPGS, Inc.

**Figure 9-54—DC power system with dc-I Return**



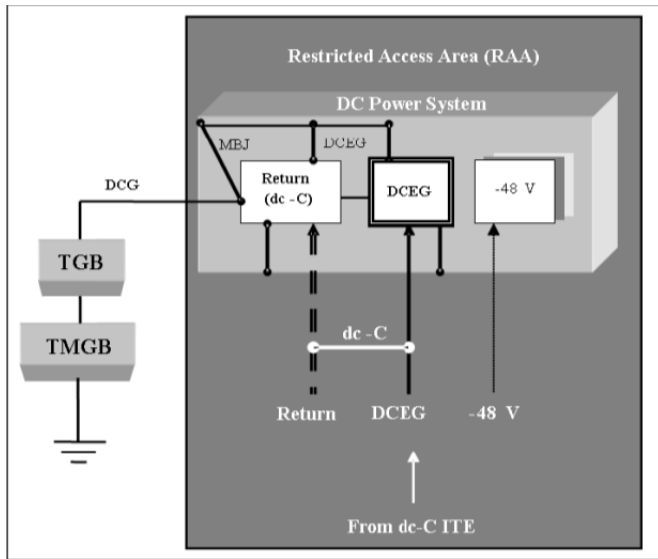
Courtesy of SPGS, Inc.

Figure 9-55—Dc-I dc power system Return regrounded by dc-C ITE



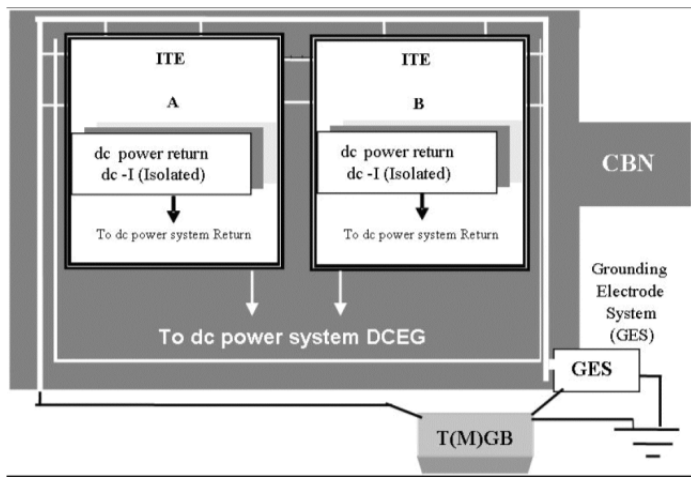
Courtesy of SPGS, Inc.

Figure 9-56—DC power system with dc-C Return



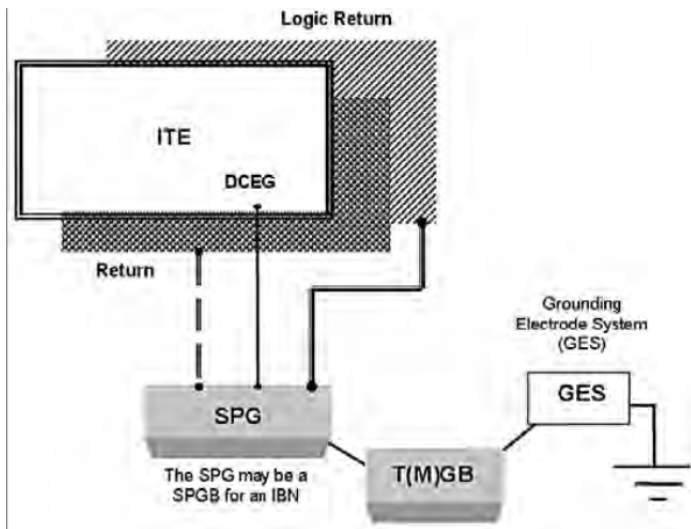
Courtesy of SPGS, Inc.

**Figure 9-57—DC-C dc power system Return regrounded by dc-C ITE**



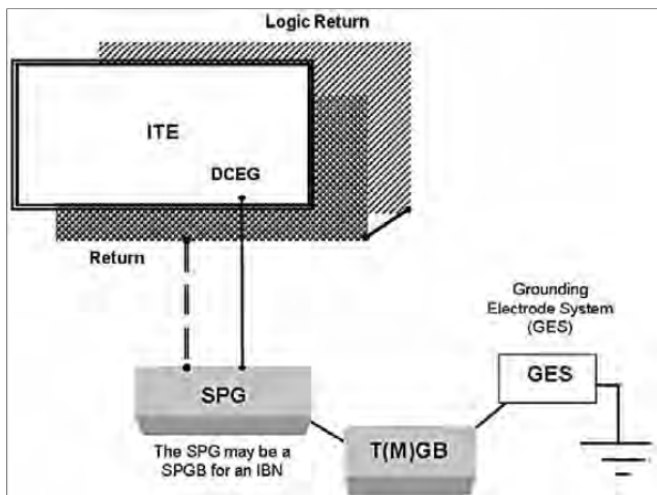
Courtesy of SPGS, Inc

**Figure 9-58—ITE with dc-I Return and located in a CBN**



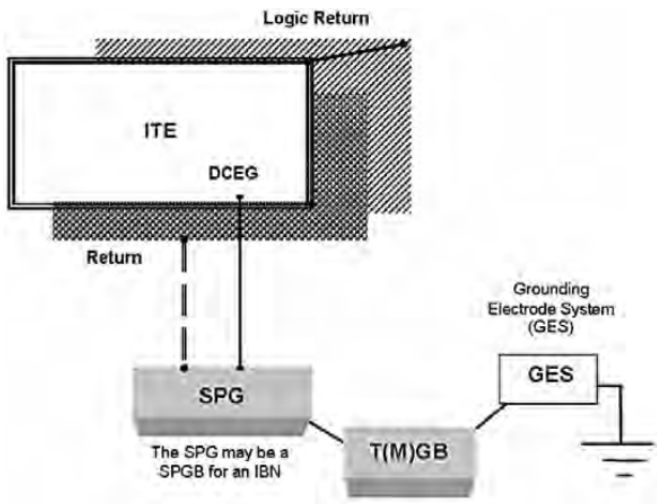
Courtesy of SPGS, Inc.

**Figure 9-61— ITE with each ground plane externally single-point grounded**



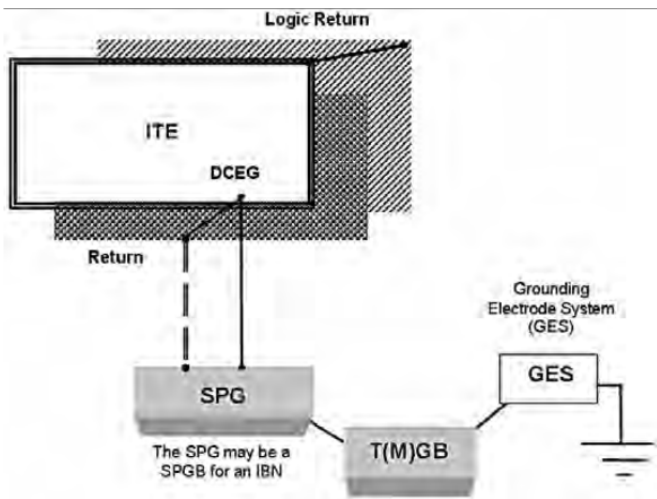
Courtesy of SPGS, Inc.

**Figure 9-62—ITE with logic return internally grounded to the Return**



Courtesy of SPGS, Inc.

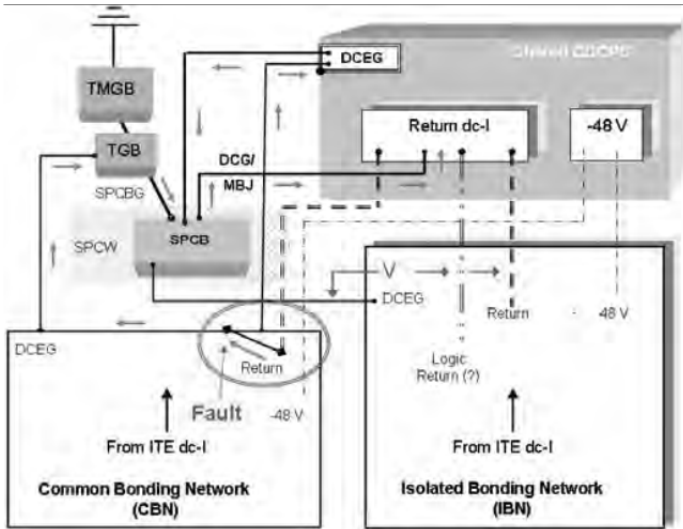
**Figure 9-63— ITE with logic return internally grounded to the DCEG**



Courtesy of SPGS, Inc.

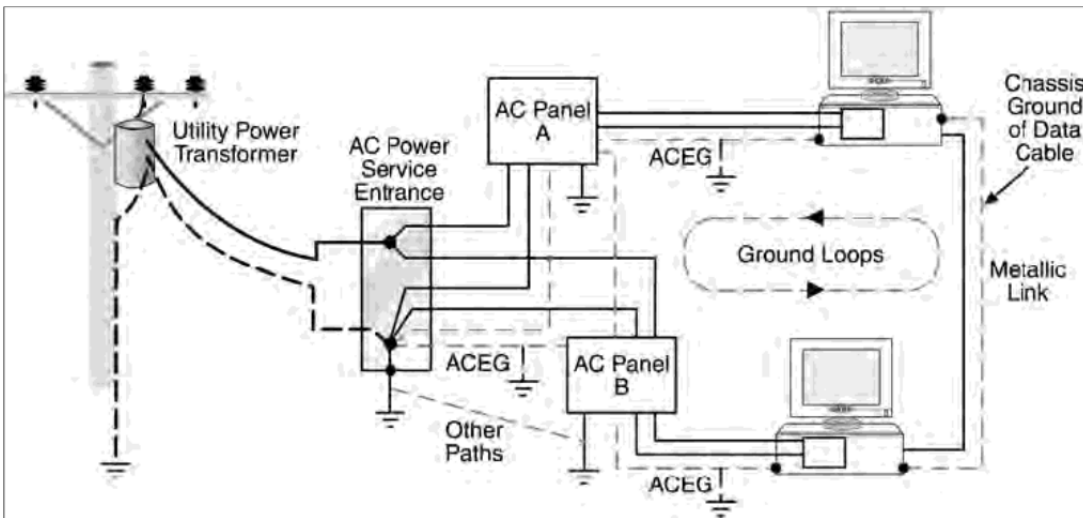
**Figure 9-64— ITE with logic return and Return internally grounded to the DCEG**





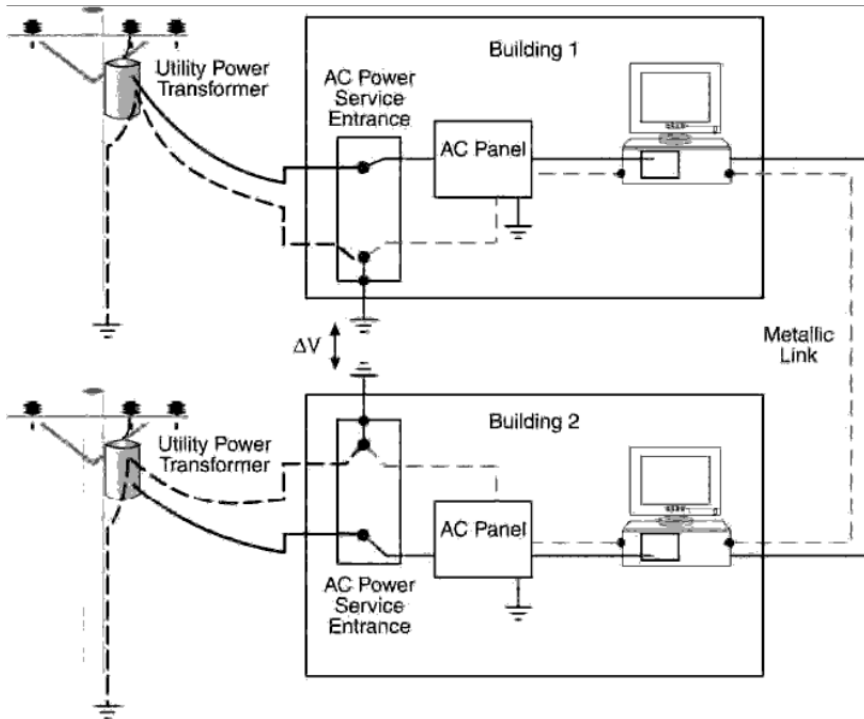
Courtesy of SPGS, Inc.

**Figure 9-70—Undesirable dc paths due to the Return of the ITE in the CBN not properly bonded to the SPCB**



Courtesy of SPGS, Inc.

**Figure 9F-3—Example of intersystem ground noise within the same building**



Courtesy of SPGS, Inc.

**Figure 9F-4—Example of intersystem ground noise between different buildings**